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UNIVERSITY OF ALBERTA

folio

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Students' Union and administration agree to disagree on tuition debate

SU says they've found \$5.2 million in university budget "savings" but VP finance says numbers don't add up

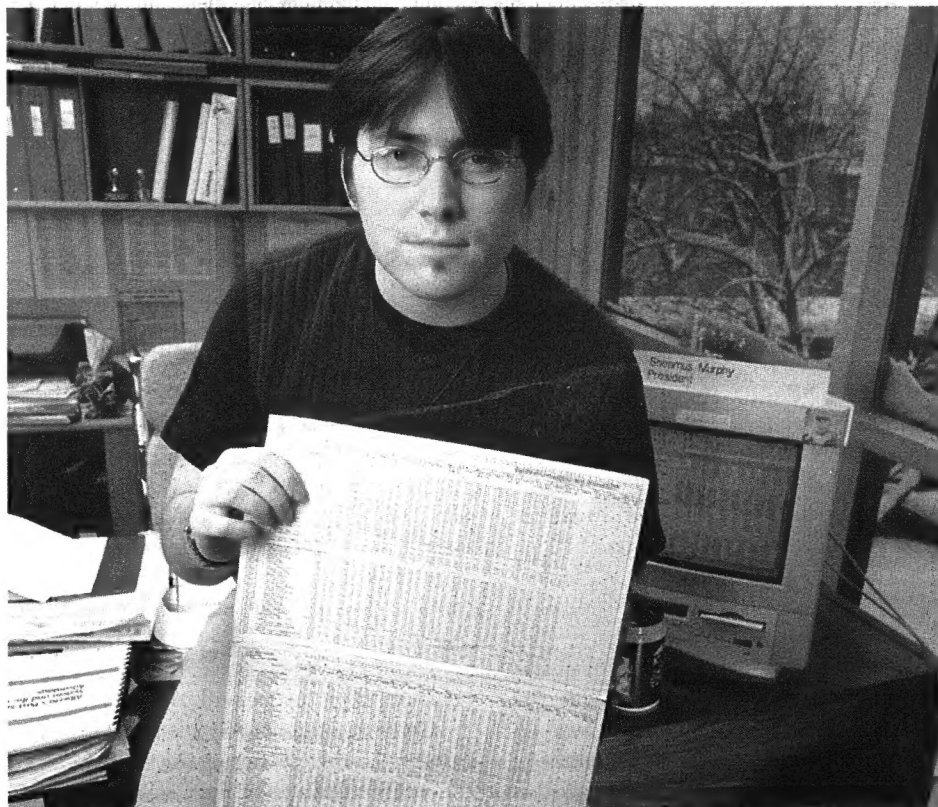
By Lucianna Ciccocioppo

Despite a year of unprecedented student input and cooperation with administration in the tuition issue, the Students' Union says they are prepared to argue against a proposed 6.7 per cent tuition increase because they say they've found \$5.2 million the University of Alberta could save.

"The board raises tuition not because they want to but because they have to, or so they claim. We dispute that fact," said SU president, Sheamus Murphy. "We believe there are other sources they can go to for increased revenue. We also think there are some areas of the university that might not be as efficient as could be."

The Graduate Students' Association (GSA), on the other hand, said they "reluctantly support" the proposed 6.7 per cent increase. In a prepared statement, the GSA said they "felt the university administration, academic staff, non-academic staff and the Board of Governors have made a concerted and sincere effort" to keep the tuition increase below the maximum level. Grad students were concerned cuts to faculty budgets would "harm the quality of education...and affect grad students directly through the elimination of graduate assistant, sessional and new faculty positions."

By comparing the U of A to Canada's Top 5 universities, the SU executive concluded that while U of A salaries were low, staff benefit costs were high, almost double those at the other universities. It also argued the Faculty of Extension was losing money and charged too little for



Students' Union president, Sheamus Murphy: crunching numbers to slow down a tuition increase with supporting arguments, not "heartbeat" ones.

non-credit courses; as a result, students were subsidizing an inefficient operation "that does not benefit undergraduate students."

U of A's vice-president (finance and administration), Glenn Harris, said an across-the-board comparison between universities is not possible because accounting and reporting practices are dif-

ferent. "When you take a closer look at the [SU] data, their conclusions are not supportable." In addition, the data were not audited and the terms of reference are loosely defined, he said.

To arrive at their figures, the SU purchased a copy of reports produced by the Canadian Association of University Business Officers (CAUBO) which collects

The Board of Governors met today to vote on the proposed tuition increase. Please view our Web site for the full story: www.ualberta.ca/folio.

data from all universities through Statistics Canada. Then, using the latest data available (1996), the executive compared the sources of general operating revenues at the University of Alberta with those of comparable sister universities — Calgary, Toronto, British Columbia, McGill and Montreal.

The executive felt their battle last year for a less than maximum tuition increase failed "because we didn't have the numbers to support it. We had them on the heartbeat argument...but we didn't have them on the university budget," said Murphy.

This year, as a result of their number crunching, the SU believes it can show the university is "over-reliant on tuition and underperforming in revenue generation." Said Murphy: "[The university] keeps going to tuition fees because it's the easy thing to do, it's the easy way out."

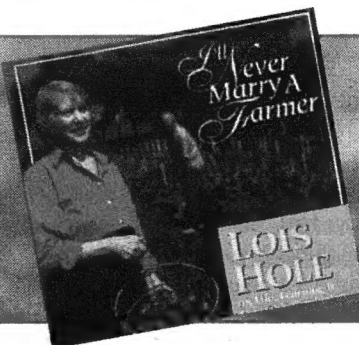
Murphy is the first to admit the SU analysis "is not scientific" but he does want the board, especially the new members, to think about their arguments. "The board members have seen this debate unfold in a way it never has before," he added.

Please see "Tuition Debate" on page 6

Meet Lois Hole

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Mentor, teacher, puzzle man

Dr. Andy Liu earns distinguished teaching awards

By Roger Armstrong

"I still remember your interesting lessons, your funny toys from Binary Arts, the humorous patterns on your clothes and your smile. But the most thing I remember is your method and deep insight through the problems. Obviously it is very valuable for me to learn and study."

— Excerpt from a letter to U of A mathematics professor Andy Liu from David A. Deng, Grade 12, China

This is a typical response Dr. Andy Liu gets from students of all ages with whom he comes in contact. Last summer, Liu spent 144 days travelling in Asia volunteering his time visiting students in his native China and Taiwan, while thinking up questions for the International Mathematics Olympiad.

One can only imagine the excitement and pride that Hon-Shien Liu (no relation), a Grade 7 student, must have felt as he submitted for publication in Taiwan a mathematics paper that he co-authored with Liu.

The dedication Liu shows overseas is also present at home. He has co-authored papers with many young mathematicians here in Edmonton as well. These students are part of the popular Saturday afternoon math club he started in 1981. Open to all young people interested in math, it's not a tutoring session, Liu is quick to point out. "A club is a club and some of them don't listen to a word I say."

Liu runs the club on his own time and has built up an impressive array of puzzles and games to inspire the children and keep them coming back. He doesn't charge for the club, not wanting to exclude any underprivileged kids from enjoying math. And the parents have no recourse to come back at him, he chuckles.

Obviously, Liu likes working with young children and getting them enthused about mathematics. He says he enjoys the eight- to 10-year-olds the most. "At that point, they do not say 'I hate math,' and that's a good thing." Always putting in the extra effort to reach his students, Liu has learned how to write upside down so his students can see his explanations better.

Liu has touched a lot of students both in university classes and in his many volunteer activities. It's one of the reasons



Dr. Andy Liu and his collection of mathematical puzzles.

he'll be recognized with two distinguished teaching awards this year. The first is from the Ontario Institute for Studies in Education at the University of Toronto. Liu is one of six winners of the 1998 Distinguished Educators Award. And the second is from the Canadian Council for the Advancement of Education (CCAE) and the Council for Advancement and Support of Education (CASE), who are honoring Liu as the 1998 Outstanding Canadian University Professor of the Year. He will receive a framed citation and \$5,000 at a special presentation in June.

A modest man with a sense of humor, Liu takes his honors in stride. "Being nominated is the big honor. Winning is

just the icing on the cake. It's good for the university," he says. When asked why he thought he got the awards Liu says, "Beats me...I think whoever put out the proposal did a very good selling job." The truth is that his colleagues and students consider Liu a dedicated, excellent teacher. Graham Denham, a former student and friend of 18 years, now taking a PhD in mathematics at the University of Michigan, says Liu piqued his interest in math. Dr. Tony Lau, teaching committee chair for the department of mathematical sciences, says: "He is one of our very best teachers. The fact is, he's the only person I know who is willing to spend time all on his own on Saturdays, even when he was a student, to teach these younger children."

"Teaching is not just a necessary evil, it is an interest of mine," says Liu, who holds a graduate diploma in elementary education in addition to his doctorate in mathematics.

Liu's research interests span discrete mathematics, hypergraph theory, combinatorial geometry, foundations of mathematics, mathematical education and recreational mathematics. He arrived in Canada in 1967 to do an undergraduate degree at McGill. In 1970 he moved to Edmonton and continued his studies in mathematics. Currently, Liu is working with a colleague from Taiwan to sell a new puzzle, a new business that is a great example of applied mathematics, he says. He also loves to travel and is in the sunny climes of Colombia for several weeks, acting as an educational adviser and inspiring more young mathematicians...as only a professor like Andy Liu can. ■

Correction

The name of Dr. Wayne D. Grover was incorrectly published in the *Laurels* section in the Dec. 11, 1998 edition of *Folio*. Dr. Grover, Department of Electrical and Computer Engineering, is the 1999 W.R.G. Baker Award recipient by the Institute of Electrical and Electronics Engineers (IEEE) — the first Canadian to receive the award. *Folio* apologizes for the error and for any embarrassment it may have caused on the occasion of Dr. Grover's accomplishment.

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...it makes sense

Students' Union supports Western students in battle over travel agency

Is this a real issue or a turf war?

By Sheila Soder

A vindictive agenda against a rival national student lobbying group, or an effort to right the wrongful transfer of assets? Although ultimately it will be up to Ontario courts to decide, the University of Alberta Students' Union (SU) has recently pledged support for a \$100 million lawsuit over the ownership of the national student travel organization known as Travel Cuts.

The SU contends ownership of the travel service was illegally transferred to the Canadian Federation of Students (CFS), a national political organization that U of A students voted to leave in 1985. The lawsuit, filed on Oct. 31, 1997, was initiated by the Students' Council (SC) at the University of Western Ontario.

Travel Cuts, formed in 1974, was owned by the Association of Students' Councils (AOSC), of which the SU is a member. The last general meeting of AOSC was held in 1987, at which time transferring the group's main asset, Travel Cuts, to CFS was approved. Although the transfer was to have occurred the following year, it did not do so until 1991. In those three years, CFS membership had declined to a level at which SU president, Sheamus Murphy, has estimated it would not have been possible to achieve re-approval of the motion on the transfer. AOSC still exists as a legal entity and, although it has not met in 10 years, Murphy would like to see it reactivated and have ownership of Travel Cuts transferred back to AOSC.

"The issue is the CFS monopoly," says Murphy. "If we had our say in how Travel Cuts was run, things would be different." Murphy envisions a board of representa-

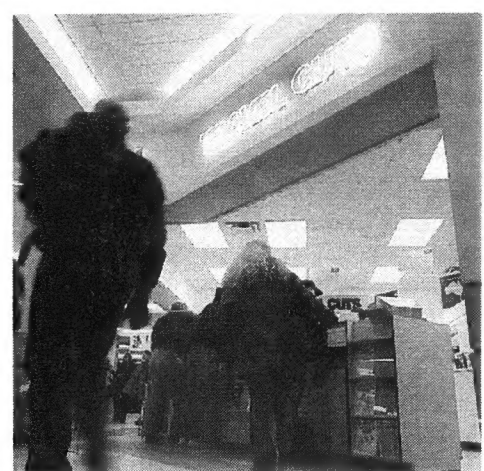
tives elected from all the schools involved in Travel Cuts, with "each campus as a shareholder in an entire national organization." Travel Cuts is currently run by the CFS board of directors, and operates 55 travel agencies on campuses across Canada.

CFS contends, however, that the lawsuit is not about justice. "It is a frivolous and vexatious lawsuit, designed to prevent us from doing our mandate," claims Elizabeth Carlyle, national chairperson of CFS. Carlyle would not comment on the case but said: "We have a strong case. We are very confident justice will prevail."

Carlyle noted the schools pledging support for the lawsuit against her organization are members of the Canadian Alliance of Student Associations (CASA). "We are not interested in getting involved in a fight with another student organization," she said. The SU is a member of CASA but Murphy insists the lawsuit is not an attack on CFS.

Students questioned on campus say the service they receive from Travel Cuts has not been affected by the struggle over its ownership. "It's the best deal on my trip," said Heather Kuzyk, a first-year arts student who had recently purchased her reading week ticket to Mexico through Travel Cuts.

Peter Dang, a third-year education student, also thought the travel service was owned by the SU. "I buy tickets from Travel Cuts, and it really ticks me off that the [profit] is going to an organization that I have never heard of," he said. "If the money is going to a political organization, I'd want it to go to the one that we belong



The Students' Union supports a \$100 million lawsuit over the ownership of Travel Cuts.

to. If I knew that the money was not going back to our SU I would rather go to another travel service."

Carlyle believes that no matter what the outcome of the lawsuit, students across Canada will lose. "Whether CFS or Western is footing the bill, the cost is coming from the students' hard-earned money," she says.

Paul Durand, manager of the U of A Travel Cuts, would not comment on the lawsuit.

According to Murphy, the U of A SU has no intention of actually joining Western's SC as plaintiff in the lawsuit. Instead, the U of A Students' Council recently passed a motion of financial support for Western for the lawsuit, although Murphy has said that the decision was made *in camera* and the amount approved is not available. ■

Grad school: There's no life like it

Debt, job uncertainty and isolation rank high on stress list

By Lucianna Ciccocioppo

Just before the rush of the Christmas season began, a sobering eight-page feature story about a suicide ran in the *New York Times* magazine.

Twenty-six-year-old Jason Althom was a PhD student and shining star in a chemistry lab led by Nobel laureate Elias J. Corey at Harvard University. He took his life last August and left not one, but three suicide notes: one to his parents, one to his department chair and one to his graduate adviser. Four weeks later, Althom's parents shared the letter to the department chair with *The Harvard Crimson*, which published excerpts.

The note began: "This event could have been avoided." It went on to say professors have too much power over their

pected to have a publishing record and teaching experience, she pointed out. University administrative experience and involvement in university life as a grad student are also preferred, added Speers. It's not so easy to juggle all this as programs become more expensive and fewer teaching assistantships are available.

International students have additional worries. Nadeem Khattah is taking his PhD in civil engineering. He and his wife are from Pakistan. They feel the economic crunch, said Khattah, because he doesn't qualify for student loans and foreign students pay higher tuition. As well as adjusting to another culture, Khattah struggles with the burden of "more pressure from home to do well and get good marks."

first graduate degree. She believes her supervisor, as a newly minted PhD, was "too conscious" of the fact Erfani was a student and remarked her writing was "too female." The relationship was "problematic" and she moved on.

Some grad students deliberately look for older supervisors, with more established reputations. "They're more likely to contribute because they already made a name for themselves," said Alke. There's a feeling young professors may find grad students with new, challenging ideas threatening and a source of competition. The mantra of "publish or perish" is too fresh in their minds.

Another reason students seek "someone with a name and reputation," said

project expectations and authorship, not only at the start of a contract but also as the research and writing evolves.

ISOLATION IS HARD TO BEAR

Many agreed the big stress for students involved in research programs is loneliness. Teresa Dobson, a fourth-year PhD candidate, described it as "really isolating and lonely if your supervisor isn't the type of person who likes to contact you a great deal and say, 'Hey, how are you doing?'" She recalled how her Scottish master's supervisor would keep in touch. "He'd say 'This is your nemesis calling!' I loved those calls." Students who have a more "hands-off" supervisor, added Speers, may find staying focused more challenging.



students and recommended a three-member faculty committee be adopted to supervise the progress of each graduate student and to protect them from abusive research advisers.

This was the second suicide to hit the Corey group in two years, the third since 1980, and it prompted changes for graduate students at Harvard.

Thankfully, no reported incidents of this kind have hit the University of Alberta. But talk to any graduate student and the stresses are real — financial, academic and family, and uncertainty about the future as well.

EXPECTATIONS INCREASE ALL AROUND

"What has traditionally been expected for faculty is now being expected for graduate students," said Kim Speers, president of the Graduate Students' Association (GSA) and a third-year PhD candidate in political science. A graduate student looking for an academic job is ex-

pected to have a publishing record and teaching experience, she pointed out. University administrative experience and involvement in university life as a grad student are also preferred, added Speers. It's not so easy to juggle all this as programs become more expensive and fewer teaching assistantships are available.

SUPERVISOR-STUDENT COMMUNICATION IS A MUST

The key, it seems, lies in the supervisor-student relationship, whether it's a power struggle between professor and "lackey" or a partnership between senior and junior colleague. Master's student Elizabeth Alke said she "hit the jackpot" when it came to choosing her supervisor. "It started out as professor-student but now we're colleagues." Nina Erfani, also a master's student, wasn't so lucky with her

Kim Speers, is to include the professor's name in research papers. It helps draw attention to your work. On the other hand, it can turn into more attention than you bargained for.

One student, who requested anonymity, is pursuing a possible breach of ethics over a publication. As a graduate research assistant, the student was assigned to collect data and write the paper. To the student's dismay, the supervisor claimed authorship, giving co-authorship to the assistant, and presented the paper at a conference. The student is investigating the matter with trepidation, fearing being labelled a "troublemaker" in the department.

No graduate student wants to burn any bridges — supervisors give out paycheques with one hand and write letters of recommendation with the other.

Dr. Bill McBlain, associate vice-president (research), said it's critical for supervisors and grad students to clearly discuss

Even admitting to loneliness is difficult. "I'm glad to hear other people are going through the same feelings," said Elizabeth Alke. She bought a pool pass to force her to get out and interact with others.

An empathetic Dr. Mark Dale, dean of the Faculty of Graduate Studies and Research, wants to improve the whole graduate student experience, starting with the role of supervisors. "I'd like to see more recognition of the worth of a graduate supervisor," said Dale. Currently, it's not formally rewarded on campus. He'd also like to bump up fund development for student scholarships and reinstate financial support to bring in external examiners.

Meanwhile, U of A's 4,400 grad students would do well to take Dr. Saslove's advice: get some recreation, relaxation and exercise. And, he said, stay tuned for "Surviving your Dissertation," a group-counselling session he plans to set up soon. ■

A father's story

New Year holds hope for professor's injured son

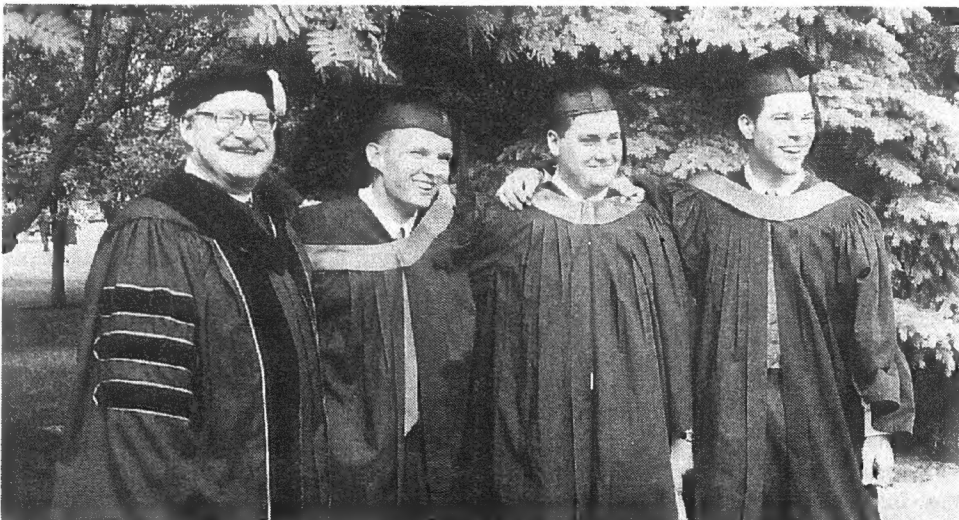
By Dr. Ross W. Wein, Department of Renewable Resources

Nov. 21, 1998 was the blackest day of my life. The Canadian embassy in Ottawa called to say our son, Danny, was involved in a collision with a truck just outside Bogotá, Colombia. He had a broken leg and head injuries; the prognosis was not good. Eleanor, my wife, and I wandered around home like zombies while trying to keep busy until we heard further news. The next morning at 7 a.m., I was flying to Bogotá wondering if Danny was still alive; I had packed my black tie.

Danny's trip-of-a-lifetime had been going so well. In late September, he and two buddies from Vancouver headed for Central America via the West Coast and then Mexico by motorcycle. His telephone conversations and his email messages were filled enthusiastically with friends made, sights seen and experiences enjoyed. Of course we were happy for him and proud of his quest for independence. We were concerned with his safety as he and Jeff travelled through the Yucatan Peninsula and into Belize as Hurricane Mitch approached the Caribbean Coast. They drove to El Salvador ahead of the worst of the storms that began to tear apart the countries of Honduras and Nicaragua. We were concerned poor travelling conditions would prevent him from preparing for his graduate program at the University of British Columbia but his email read "Don't worry Mom, I'll be home for Christmas." With the roads completely impassable, they flew with their bikes to Caracas, Venezuela. They planned to travel south to Chile and Argentina. It was not to be.

I arrived in Bogotá late on Nov. 22, the day after Danny's accident. A representative of the Canadian embassy and Jeff met me at the airport and we drove to the Hospital Simon Bolivar immediately. The broken femur held together by pins and a brace, the bruises, the stitches and the breathing tubes were not pretty.

There must have been a guardian angel sitting on his shoulder at the time of the accident. He had been soaked with gaso-



At convocation ceremonies last spring: Danny Wein, far right, with friends and dean of science, Dr. Dick Peter.

line from the punctured tank and no sparks caused ignition. Jeff was at the crash immediately and probably saved his life with first aid. Three medical people arrived from nowhere and assisted. A stretcher appeared from a nearby construction site and in 20 minutes he was speeding toward the nearest hospital in the back of a pickup truck because the ambulance could not fight through the traffic. The hospital was only a few kilometres away and had one of the best trauma units in the city of 7 1/2 million people. I thought back to my conversations with Danny as he prepared for the trip. He had bought the best of protective helmet, outerwear and boots; it sounded like a lot of money at the time. Now I was convinced the gear saved his life.

I stayed with him for three weeks while he stabilized in the intensive care unit at Simon Bolivar Hospital. The hospital staff members gave us outstanding professional and personal attention, and at home, my university colleagues and our other neighborhood friends stepped forward with many kinds of support. During the first week and a half, there was a clearing of the bruising but a problem with pneumonia. In the second week and a half,

Danny stabilized. He began breathing on his own through a tracheal tube, he fought off the pneumonia and he received physiotherapy treatments. On Dec. 9 we were galvanized into packing by the news that Danny could be transported by air ambulance in the near future.

The next day a medical team flew with us to Edmonton by Lear Jet air ambulance. Our son was admitted to the University of Alberta Hospital. Danny would be home for Christmas. (And just a note here about the value of travel insurance — which Danny did have. It may seem expensive but our family needs no convincing: It's essential.)

We said goodbye to the friends we had made in Bogotá and to a very supportive medical team at the hospital. Our flight to Edmonton was smooth and comfortable. Danny appeared to travel well under the care of three medical people.

He had a few setbacks after arriving home and it was frustrating for our family because the rapid staff changes over Christmas made it difficult to talk to staff who had seen Danny more than once. He was found to be harboring MRSA (methicillin-resistant staph aureus) and so has been in isolation; visitors must wear a

gown, face mask and gloves. He was not fed for four days after our flight because the doctors required a new stomach tube implant. He kept losing weight until our family insisted his energy intake be increased (it went up 50 per cent). His conscious level has changed positively only to a small degree; he ranges from eight to 10 on the consciousness scale. His lungs cleared and he is now breathing through his nose; the tracheal tube will be removed soon. He is receiving pain relievers from time to time.

Danny has had a flood of visitors since arriving home. We think it has been good to have his friends talk to him about familiar experiences. He is responding with more open eyes, as well as face and hand movements; there is no speaking yet. The face and arm bruising is gone and he looks quite normal. (Danny's female friends think his scars make him more handsome.)

It was a quiet Christmas. We wait for Danny to make small, daily improvements in the New Year. ■



Danny Wein, son of Drs. Ross and Eleanor Wein, on the California leg of his bi-continental trip.

Fabulous prairie novel makes a stylish comeback

By Geoff McMaster

Some works of literature are so fixed in their time and culture they lose the ability to touch readers soon after publication. Dr. Robert Kroetsch's *What the Crow Said*, however, transcends such limitations. In fact the impressively designed reprint of this neglected classic by the University of Alberta Press could conceivably outshine the novel's first arrival on the Canadian literary scene 21 years ago.

Arguably the most fantastic of Kroetsch's works, *What the Crow Said* is set in the town of Big River, situated somewhere on the border between Alberta and Saskatchewan. In addition to the ambiguous location, the story's time frame is also impossible to pin down with any certainty — in broad terms, the action takes place some time after the Second World War when rural Alberta was making the transition to technology-based agriculture.

The opening scene is one of the most strangely erotic in Canadian literature: a young woman is raped by a swarm of bees while lying in a patch of wild flowers. From that day on, she and the town she lives in are never the same. The first sentence immediately sets the mythic tone of Kroetsch's narrative: "People, years later, blamed everything on the bees."

In the long days between tending crops, characters are worked upon by the wildly unpredictable prairie weather and fall victim to the most tragi-comic of circumstances: a costly and fatal war against the sky, a seductive card game lasting for months and leaving most of the players destitute, a baby's rescue by wolves after being thrown from his mother's horse and left for dead. This is a far cry from the dry, realistic sort of prairie fiction typically associated with Western Canada. If Kroetsch is guilty of regional navel-gazing, he has one bizarre navel indeed.

Kroetsch is perhaps best known for his novel, *The Studhorse Man*, which won a 1969 Governor General Award. In spring 1997, the Heisler-born writer, teacher and critic became the third Alberta author to receive an honorary degree from the U of A, a gesture underscoring his indisputable place in Canada's literary tradition.

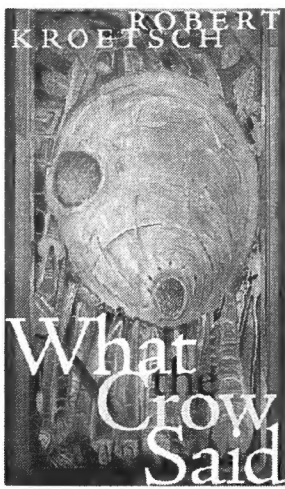
While much of his work has fallen out of favor in recent years for its decidedly masculine frontier ethos, *What the Crow Said* points well beyond the confines of time and place, says U of A Press editor Glenn Rollans. Shaped by a good deal of classical and biblical mythology, and imbued with a solid dose of magical realism, the book has an unmistakable timeless quality.

"When I wrote *What the Crow Said* I thought it was full of magic realism," said Kroetsch from his daughter's home in St. Petersburg, Fla. "Now when I read it, it seems much more realistic. It's the way the world really was back then. I'm really delighted this one has been reprinted."

As to accusations of masculine bias, Kroetsch argues "masculinity is back in" now. "Maybe that's part of why it was reprinted."

People are more interested now in the difficulties of maleness...I think it's a very positive examination of the difficulties of masculine narrative, especially as we used to tell it on the prairies, where it was such a physical thing."

What the Crow Said is the first novel released by the U of A Press, but others will follow, says Rollans, along with the occasional collection of poetry. They constitute a new interdisciplinary series called "cuRRents" (general editor Dr. Jonathan Hart), that will include a wide range of genres in original as well as reprinted editions. The series is designed to promote



some of the finest, if neglected, Western Canadian writing.

"I've got an interest in seeing especially important western works that are out of print being back in print," says Rollans. "We sort of had our eyes open when Kroetsch got an honorary doctorate. He's a very forceful and in some ways masculine writer...but what comes out a lot is his recourse to classical stories. Even in horrific circumstances, there's a kind of resilience of character that goes beyond endurance."

In his introduction to the novel, Dr. Robert Wilson observes "in Kroetsch's in-between spaces very ordinary things occur, but they do so with a twist, often quite simple in itself, that makes them seem momentarily aberrant, often deeply strange."

The result is a world where every gesture brings on consequences of mythic proportions, and where, according to Wilson, "everything in nature — winter, sunshine or spring snowstorms — contains the embryos of human desire." It's a world readers will now have the good fortune to rediscover. ■

People are more interested now in the difficulties of maleness.
— Kroetsch

Realistic Lifestyle Changes

By Dr. Wendy M. Rodgers, Faculty of Physical Education and Recreation

Tis the season of resolution trashing. I heard on the radio the three most frequent New Year's resolutions are to quit smoking, to lose weight and to exercise more. This didn't surprise me and I'm sure it comes as no surprise to you. What it tells me is, in general, 1) people know smoking isn't the greatest of lifestyle choices — in terms of health, 2) they would like to be slimmer and 3) they know exercising is probably a good lifestyle choice — in terms of health.

I'm also sure this comes as no surprise to most readers. So what do you need me for? This is a good question. I ask this of myself frequently. Over the past few years, I have been involved with or have directed a number of programs and seminars geared toward lifestyle change in three Canadian cities. By and large, these have included an exercise and a nutrition component (the latter always offered by a dietician). Until recently, I was usually the exercise leader as well as the motivational speaker. Now I'm pretty much just the motivational speaker. Why? Because my lifestyle, and the inherent constraints and responsibilities, don't allow me to be involved in as many things as I would like to be and I know the same is true for everyone else. We all have to make choices. One of the questions that drives my involvement with these various programs and my related research is how we go about making those choices.

Most people think lifestyle change is a good idea. An analogy I often use (which is still related to lifestyle) pertains to money. Most people can think of some large or small financial change they would like to make such as saving more money, spending less money or contributing to RRSPs. When a person decides to invest in a RRSP, she or he usually thinks about how much money can be contributed on a monthly basis. The person generally doesn't make a plan to not spend any money at all for three months (I mean not on rent or mortgage, not on groceries, not on entertainment), and make the full contribution as fast as possible and then go back to life as usual. Most people would think this a bad idea (that is, not paying rent tends to have some negative consequences) or even silly.

However, this is precisely what we do with lifestyle change. I'm sure many of you have seen the signs on the bus stops on the way to campus: "30 pounds, 30 dollars, 30 days." Or even better: "... all the weight you can lose for \$30." There's a so-called "diet industry" completely geared toward this type of thinking and created to keep most of us buying "diet" products and memberships at fitness clubs. Thus, it seems, most people aren't interested in "realistic lifestyle change" at all, at least not until they have become convinced that all the "miracle cures" won't work.

I have two kinds of evidence for my observation. First, when I tell people life-

style change is hard and it will take a long time, most of them never come back to my programs. Second, the ones who stay tell me "they were ready for this." So, how do we get to this point? It is generally about this time that I begin to wonder about being a "motivational" speaker, because I seem to spend most of my time slowing people down and warning them with reality checks. I firmly believe this is important, based on feedback principles.

If you are doing something you value for a valued outcome and it seems to be working, it's motivational. You do what you like and you get what you want so you do it again. If, however, you are doing something you hate and you're not getting what you want, it's discouraging. So you stop. That's where I think a program helps. You need to know everyone thinks these changes are difficult and everyone has to wait for the outcomes. One of the adjustments to be made is in deciding what the outcomes are and how fast they will be achieved.

Going back to my analogy, there are two things to consider. First, what constitutes "rent" and "groceries" from a lifestyle perspective? The mainstays — the things we all have to do and the things that keep us well. Just as there would be consequences for not paying rent for three months, there will be consequences for not eating for three months (or eating only coconut and lentils or another single food). Similarly, there will be consequences for

exercising incessantly for several sessions after having not exercised at all for, let's say, 10 years. Small adjustments have to be made. We have to become accustomed to change. If we took all our spare cash and dropped it into an RRSP — as much as this would be a good step toward a secure future — we would feel impoverished in the present. When we decide never to eat chocolate or drink coffee or beer again, we tend to feel a bit deprived. Which brings us back to the "rent" and "groceries" issue. You need to know what keeps you going.

Second, once these mainstays have been accounted for, what's left over? Where can change be made? What is the "size" of the room for change? This should give a good indication of how long it will take to realize the desired effect. I recommend starting with time. Make an HONEST schedule and see what's left over. I suspect not much. I have seldom run into many people who have regularly occurring blocks of time where they literally have nothing to do. Remember to include your favorite TV shows, for example (although we can work with this). No cheating. Then pick out one time slot in this "left over" time that's not too inconvenient and try to build in ONE 20 to 30 minute walk per week. It's okay if it's at the mall. It's probably better at the mall because it will be more interesting and warmer.

This strategy, however, might require a re-examination of your RRSP plans. But life is like that. ■

Could the U of A have an "Olivieri" case of its own?

By Dr. Joel Weiner, associate dean, Faculty of Medicine and Dentistry

Recent high-profile media reports to the "Olivieri case" at the Hospital for Sick Children in Toronto have focused attention on the interplay between medical researchers and industrial sponsors. The specifics of the Dr. Nancy Olivieri case are complex, as can be judged from the Naimark report. However, two issues have surfaced repeatedly in the media: 1) the growing influence of industry funding of medical research, and 2) the potential for industry to exert undue influence on research results and publication rights, which could compromise patient safety and scientific integrity.

The funding for medical research traditionally comes from the Medical Research Council and a number of private foundations and charities. As a consequence of deficit elimination, the government of Canada reduced the MRC budget by 13 per cent (20 per cent if adjusted for inflation) from 1994-1997; charitable donations remained relatively constant.

Even with an infusion of \$40 million to the MRC budget in the current fiscal year, funding for health research in Canada has seriously lagged behind our economic competitors. The per capita funding in Canada is about \$9.50 (to MRC) compared to more than \$86.70 in the United States (to the National Institutes of Health). While the U.S. Congress promises to double the NIH budget in the next five years, Canadian researchers have been promised only slight increases in funding and so are working hard to develop a new platform for funding health research through the Canadian Institutes of Health Research. The current funding shortfall has resulted in a loss of researchers to better opportuni-

ties elsewhere, and growing difficulty for Canadian scientists to remain competitive in rapidly developing international research.

While direct government support for research has lagged, the government has influenced medical research funding as a consequence of drug patent protection. Through Bill C-22 and Bill C-91 the government required, and then encouraged, the innovative pharmaceutical industry to invest 10 per cent of gross sales in research in Canada. This resulted in industry research investment growing to more than \$825 million in the past fiscal year, up from \$106 million in 1987. The result has been a dramatic shift in the funding of health research in Canada.

Extramural funding in the Faculty of Medicine and Dentistry is typical of the shift seen nationwide. Currently about 23 per cent of the \$54 million in external research funding to the faculty is provided by industry, compared to only a few hundred thousand dollars a decade ago. The majority of pharmaceutical industry extramural spending goes to clinical trials. This has been the prime area of growth in research funding during the past five years.

The partnership between industry and academia can be of benefit to both university researcher and industry. An excellent example is the GlaxoWellcome Heritage Research Institute. The influx of funding from Glaxo Wellcome has allowed Dean Lorne Tyrrell to develop the drug 3TC as a treatment for hepatitis B. This development will have enormous benefits for human health worldwide — every day more than 5,000 people die of hepatitis B.

The mission of the university is to discover and disseminate knowledge and to serve as a forum for unbiased inquiry. In order to manage the industry-researcher relationship, it is essential to have clear policies in place to protect the values of the university, scientific integrity and patient safety. The General Faculties Council has clearly enunciated the position of this university: "University research, therefore, which is pursued under conditions that restrict publication either in terms of content or beyond limits established from time to time by General Faculties Council is not compatible with University policy." (GFC 96.1.2). Under this policy an industry contract cannot give the sponsor total control of the data. The principal investigator (PI) must be able to publish the results after the sponsor has reviewed the contents and can only delay publication for a specified period of time not to exceed 18 months in order to protect intellectual property.

In addition to overarching university policy, medical research involving humans is based on three principles: patient safety, informed consent and scientific integrity. The conduct of research is governed by the tri-council policy statement, "Ethical Conduct for Research Involving Humans," and is enacted at the local level by research ethics boards (REBs). The University of Alberta must abide by these policies in order to receive grants from the three federal granting councils. Section 7 of the tri-council document clearly describes the role of the researcher in the analysis and dissemination of results of clinical trials. This policy states: "In many clinical trials, the sponsors obtain contractual rights to the initial analysis and interpretation of the

resultant data. Researchers and REBs must ensure, however, that final analysis and interpretation of such data remain with the researchers. ...Equally important, though sometimes difficult to achieve, is the researchers' duty to disseminate the analysis and interpretation of their results to the research community."

Could the industry sponsor exert too much control on the research? Under the tri-council policy the direction of the research rests with the principal investigator. It is incumbent upon this individual to inform the REB if they have any concerns related to patient safety; it is incumbent upon REBs to ensure patients enrolled in clinical trials are fully informed; and it is incumbent upon the university to fulfil its mission. In addition, the PI must retain responsibility for analysis and publication of the data. While differences of scientific opinion can occur, it is necessary for the REB to evaluate the results and ensure patients are fully informed of any potential adverse effects.

Thus, policies are in place at the University of Alberta to protect the patient and researcher. In order to be effective, they must be widely disseminated and adhered to by the research community.

In the first instance, investigators entering into contracts with industry must have the contract reviewed by the University Contracts Office to insure that the contract adheres to the principles of the university. And in the second, the investigator conducting research involving humans must work with the REB to ensure that patient safety, informed consent and conflict of interest issues are satisfactorily managed. ■

A tribute for Mikey

Car calendar sales to help People Against Impaired Driving

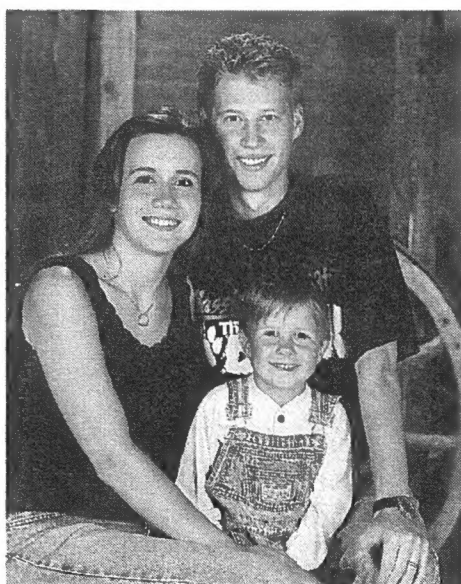
By Lucianna Ciccocioppo

In a split second, Ryan DeCoursey's life changed forever on Apr. 11, 1998. Just days before his final exams, the University of Alberta English student was heading home from Leduc with his fiancée, Jennifer Semotiuk, and their four-year-old son, Michael Semotiuk. It was early Saturday morning, about 2 a.m. They were on 50th Street.

A car ran a stop sign and collided with DeCoursey's car, hitting the passenger door on the driver side. Police estimated the car was travelling at about 90 km an hour. DeCoursey spent 11 days in hospital, in and out of consciousness, with three cracked vertebrae — one in his neck, two in his back — and eight broken ribs. His spleen and one kidney had to be removed. Jennifer escaped with a sore shoulder, back and neck.

Mikey, as the blond-haired and blue-eyed cherubic tot was affectionately called, wasn't so fortunate. The force of the impact broke Mikey's car seat and ripped his seat belt. He flew through the rear windshield and DeCoursey's car rolled over him.

"Someone tried to revive him at the scene but he died shortly after."



Four-year-old Michael Semotiuk, pictured here with his mother, Jennifer Semotiuk and father, Ryan DeCoursey, a U of A student, was killed last year in a car accident involving a drunk driver.

DeCoursey's father broke the news to him in hospital. "I didn't believe it. I couldn't believe," said the fourth-year student. Slowly, the news sank in, said DeCoursey,

when he realized his father, "a very decent man," wouldn't lie to him.

Then he heard Semotiuk's screams and DeCoursey knew she'd been told the news. That's when he passed out again.

The driver was impaired and later sentenced to three years in jail. The sentence didn't surprise DeCoursey. "I knew he wasn't going to get very much. It didn't make us feel any better...I feel betrayed by the whole system."

Eyes glistening as he strains to keep the tears from spilling, DeCoursey talked about struggling through the past year, a year of "firsts" — the first Christmas without Mikey.

"We try to support each other when we're upset...We spend time with family and friends. I work a lot; it sort of helps me."

One thing DeCoursey is working on is selling 1999 calendars in memory of Mikey. The proceeds go to PAID, People Against Impaired Driving. The idea came from, and was spearheaded by, Ken DeCoursey, his dad. He galvanized his friends and their sports models and '57 Chevys, found volunteers and sponsors for the project and also dipped into his own

pockets to help finance it. "We all like cars," said Ryan DeCoursey, who owns a Corvette. "He [Mikey] couldn't help but like them, too."

About 3,500 out of a total of 5,000 have been sold so far at a cost of \$10 each but the push is on to sell all of them, now that the end of January is near. If the goal of raising \$25,000 is met, the provincial government will match the funds dollar per dollar. The DeCourseys wish to help offset the costs of producing a PAID video directed at high school students about the dangers of drinking and driving.

"This has changed my life," said Ryan DeCoursey, who is attending the U of A part time this year because it's all he can handle right now. As for life after graduation, "I might travel and teach English abroad. I'll have to find out what I want to do." ■

Car calendars can be purchased through Campus Security Services. For further information, contact Rob Rubuliak at 492-5252 or view www.ualberta.ca/accpa/paid.htm.

UNIVERSITY OF ALBERTA CAMPAIGN

Southern Ontario Liaison Office to open

New director set to promote U of A reputation

By Geoff McMaster



Doug Gerrard, SOLO's new senior development officer.

The U of A is set to open a satellite office in downtown Toronto this month to serve alumni, students and prospective donors in southern Ontario.

Called the Southern Ontario Liaison Office (SOLO), the new branch will

follow the example of the Southern Alberta Liaison Office in Calgary, established in 1996. Starting out with one senior development officer and a half-time secretary, the university will concentrate on promoting the U of A's reputation in the competitive eastern market, says development director Guy Mallabone.

"We need to reach out and take the message of this university out of its exist-

ing silos," he says. "I can't tell you how many times I've heard people from central Canada confuse the U of A with Calgary. There is a fundamental, base-line, square-one misunderstanding and lack of knowledge of this university."

He says the new office will allow the university to seize opportunities "you can't react to when you're 2,000 miles away."

Doug Gerrard, fresh from his position as director of industry attraction with Alberta Economic Development, will be SOLO's senior development officer. His resume boasts more than 30 years of marketing and development experience in both the private and public sectors.

"My vision is to create a climate where we can raise a lot of funds for the university — penetrating markets beyond what has been done in the past," says Gerrard.

"We will expand opportunities that arise on a monthly basis. [SOLO] will also serve as a conduit for other faculties to use as a base in their work."

Gerrard is on campus for orientation until Jan. 23 and will be at his desk on the 26th floor of Toronto's First Canadian Place by Jan. 25. While admitting the Toronto market will be a tough challenge, he says he's not daunted by the city's size.

"I tend not to be too overwhelmed by size. I think it's the principles that really matter — if you follow the principles, you'll do well."

The tab for office space and secretarial support will be picked up by U of A alumnus Gordon Ornell, chairman and CEO of Brookfield Properties in Toronto. "It's a tremendous pace-setting gift by one of our strong alumni," says Mallabone. ■

folio letters to the editor

Dear Editor,
In the Dec. 11, 1998 edition of *Folio*, Geoff McMaster wrote an article on Donald Cameron (1901-1989) as head of the Banff Centre. Your readers may be interested in knowing the University Archives has 10.6 metres of Cameron's personal papers (1922-1983) including material on his years as a Senator. In addition, the archives have several other holdings which contain Cameron material including the records of the Banff School of Fine Arts, 1933-1967, (13.5 metres), the Banff School of Advanced Management, 1951-1979, (2.04 metres) and the Banff Centre for Continuing Education, 1954-1962, (2.01 metres) as well as the records of the Faculty of Extension, 1912-1995, (69.5 metres).

Yours Sincerely,
Bryan Corbett
University Archivist

TUITION DEBATE CONTINUED FROM PAGE 1

"We're just saying, if we're wrong, then tell us and justify it."

Looking at the U of A's non-credit courses, the SU found the Faculty of Extension was operating at a loss of about \$3 million while its counterpart at the University of Calgary had a modest profit of \$166,000. Extension operations at each of the four other universities produced, on average, a loss of almost \$1.5 million.

By increasing extension non-credit course fees, but still only charging "half of what our peers charged, we could generate an extra \$1 million. If we restructure the Faculty of Extension so that it only lost half of what it currently loses...we can save another \$1.3 million from our core operating budget."

Not so, says extension dean, Dr. Randy Garrison. "Extension courses make money. All extension programs and courses recover all their direct costs and then some." Extension gets a base operating budget of \$1.5 million from the university. Said Garrison: "The subsidy, in essence, goes to our faculty. We are a faculty, like any other faculty on campus, and our faculty sit on boards, do research and teach." Extension also gets

a direct provincial government grant for one program, government studies.

Vice-president Glenn Harris said U of C numbers "indicate no operating subsidy at all; therefore, they show a modest profit. Calgary is only reporting the direct costs of its programs, not their overhead costs." Factor this in, said Harris, and the two programs are similar. U of A's Faculty of Extension had excess revenues in 1995 of more than \$150,000, said Garrison.

But, argued the SU, money given to extension, from the province and from the university, is money taken away from undergraduate students.

Not so again, said Dean Garrison. Undergraduate students in other faculties take extension courses and can get transfer credits in business, engineering and oil sands technology. Currently, extension is working with agriculture and forestry for a block transfer of courses. This is happening in the face of a 65 per cent decrease in extension's base funding since 1991. Over the same period, non-credit course fees have risen anywhere from 50 to 170 per cent.

"University of Calgary uses outside facilities, like hotels, for its business clientele; therefore, it charges more for courses.

It's a very different market," said Garrison. More important, there's a provincial mandate for extension's existence at U of A. "A public institution like this one has an obligation and a responsibility for outreach. U of A has had that responsibility since 1912," said Garrison.

Still, Murphy feels the extension faculty should work towards being a completely self-funding operation within the university. And another area in which the SU wants to see changes is the costs of staff benefits.

Vice-president Harris said it appears benefit costs are out of line but, in reality, they are comparable to the other universities. Any apparent difference is due to the 1995-96 accrual of liabilities associated with retirement payouts that were part of the faculty renewal program. (Full accrual is part of new accounting standards, and U of A was the first university to adhere to it.)

"Factor number two," said Harris, "is, in this province, we pay a higher cost towards our pension plan because of an unfunded liability." The University of Toronto, for example, had a "full pension contribution holiday" due to massive surpluses, said Harris.

But during a financial crunch, it's incumbent on administration to look everywhere for savings, said Murphy. And the SU wants university employees to start paying for some of their benefits, just as SU employees do. Applying the SU rates and ratio of single/family coverage to the 7,150 university employees, the executive freed \$2.9 million. Add this to their calculation of \$2.3 million savings from extension, and voilà: \$5.2 million extra budget dollars.

The Students' Union wants to split this amount three ways, explained Murphy: for salary increases, faculty programs and students. With \$1.73 million going to students, this would cut the proposed tuition increase to 4.6 per cent, said Murphy.

"We don't expect the administration to be able to do this — we don't know that they can. We want to hear why they can't," said Murphy.

Still, the SU president said he's keeping all the numbers in perspective. "There are a lot of areas we're just not going to agree on. We can't expect to know the numbers better than [administration] does." ■

Delving into the human side of accounting

Killam professor's interests don't stop at numbers

By Phoebe Dey



Dr. Michael Gibbins is not your ordinary bean counter. The U of A accounting professor has camped by man-eating crocodiles in the Australian outback, climbed a volcano in New Zealand and will dip his toe in the Arctic Ocean later this year.

When he's not globe-trotting, the recent Killam Annual Professorship winner is either skiing or hiking in wild rose country or sitting in a theatre in the capital city. The rest of the time, Gibbins is studying the human side of accounting. He researches the judgment and decision-making process and how accountants think when preparing information.

"There is a lot of pressure involved," he said. "Accountants have to operate under a huge network of rules and regulations and it can be very tricky." Since there is a huge standards and rules superstructure, what makes his work interesting is finding out where the rules don't fit or make sense. "It's the job of the professional to know when to choose other than what the rules would say," he said.

Gibbins gathers his information about perceptions of risk and reward, motivational factors and memory processes through a range of methods which include straight statistical analysis, interviews and surveys. He has taken his research around the world as a visiting professor at the University of Illinois, Finland's Turku School of Economics, University of New South Wales in Australia and Holland's Tilburg University, to name a few. He's observed significant differences in international classrooms. For example, Gibbins found Australians to be more interested in



Killam award-winning professor, Dr. Michael Gibbins.

theory and more thought-oriented while Americans are more career-oriented and focus on how much experience they can get under their belts.

As a student himself, the director of U of A's business PhD program and Winspear Professor of Professional Accounting once thought he would be an astronomer or biologist, not a number-cruncher. "My mother said to me she

didn't want me to be an accountant, she wanted me to do something useful," he laughed.

And since he received his PhD from Cornell University in 1976, Gibbins has witnessed a change in the accounting industry. The vast impact of globalization and restructuring of organizations has made it more difficult and complex for a professional to exercise judgment, he said.

"You used to be able to sit in an office and make a decision," said Gibbins, who has been at the U of A since 1984. "Now you have to consult with a whole planet full of people."

The advancement of electronic media has also played a role in the decision-making process as well as the risks an accountant might take. "Before if you made a bad decision you could just get into trouble but now if an auditor makes a mistake he can be sued for billions of dollars," he said. "It changes the way you look at problems and assess risk."

If Gibbins has his way, he'll be taking risks for years to come. His distinctive personality shines through in all aspects of his life. His office has a clock that runs backwards and one piece of a large frog collection kept at home. Fifteen years ago, the father of two started collecting frogs and beer bottles from around the world. In fact, he had to build a room in the basement to house his 1,080 bottles, all of which were once full but have long since been emptied.

"I like a dark ale — the heavier and the darker, the better it is," said Gibbins, who lists "The Old Peculiar" from Yorkshire, England as his favorite. He offered to build an archway to his home out of beer bottles, but for some reason his wife Betty wouldn't hear of it. Next week the professor who fills his classroom with jokes is off to Atlanta to speak about his research. Then in the summer, he and Betty are off to the Yukon for a holiday.

Whoever said accountants are dull hasn't met Michael Gibbins. ■



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EMPLOYMENT EQUITY DISCRETIONARY FUND

Apply by February 1, 1999

PROMOTING DIVERSITY
in the recruitment and retention of
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- **Aboriginals**
- **Persons with Disabilities**
- **Members of Visible Minorities**
- **Women**

Thinking of ways to create a more equitable and respectful work or study environment on campus? Need support for these diversity projects?

Apply to the Employment Equity Discretionary Fund

In preparation for the U of A's third Federal Contractors Program employment equity compliance review, initiatives are being developed to encourage employment of Aboriginals and persons with disabilities. For the Winter 1999 competition, priority will be given to projects which enhance our ability to recruit and retain members of these two groups.

Who can apply?

- departments, faculties, units
- employee groups
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Read up on previously funded projects and take a minute to fill out the application form at: www.ualberta.ca/~hurights

We encourage collaboration between units. Consider working with Native Student Services (5677), Services for Students with Disabilities (3381), Office of Human Rights (7325), or other units or groups which share your goals.

For Further Information Contact:

Cathy Anne Pachnowski, Employment Equity Advisor
Office of Human Rights, 252 Athabasca Hall, University of Alberta
Phone: 492-3020 E-mail: cathyanne.pachnowski@ualberta.ca
or visit our web site at: www.ualberta.ca/~hurights



Office of Human Rights
University of Alberta

Application Deadline
February 1, 1999

■ **Implementing OPENING DOORS** — the University's employment equity plan ■

Faculty renewal: new faces, new talent

Meet your new colleagues who will carry on the tradition of excellence

By Judy Goldsand

Faculty renewal — a major strategic initiative started at the University of Alberta in 1995 — is entering the fourth year of a five-year period during which a turnover of one third of its academic faculty is expected. There is stiff competition as universities across the country scramble to replace the large number of retiring professors hired during the boom years of the late 1960s and early 1970s.

In 1996 and '97, 195 scholars were appointed as full-time, continuing, academic staff members under the faculty agreement. Many others were appointed during the same period under a variety of employment arrangements.

Between Jan.1–Dec. 31, 1998, an additional 106 teachers and researchers were hired as continuing, academic staff members under the faculty agreement. They are scholars who will play a vital role in shaping our university's future. The following list indicates their names, department and main research interest. On behalf of all their colleagues, we extend a warm welcome and wish them rewarding careers at one of Canada's finest universities. ■

AGRICULTURE, FORESTRY AND HOME ECONOMICS

Nancy Gibson (chair)
Department of Human Ecology
• cultural factors influencing prevention and treatment of tuberculosis in aboriginal and immigrant populations in Alberta

ARTS

Joe Pater
Linguistics
• phonology and first and second language acquisition

Jennifer Welchman
Philosophy
• ethics in philosophy

Kamel Abdel-Malek
Comparative Literature, Religion, and Film/Media Studies
• Arabic language and literature

Yasmeen Abu-Laban
Political Science
• comparative politics

William Anselmi
Modern Languages and Cultural Studies
• Italian language and literature

Robert Appleford
English
• Canadian (Native) literature

Cecily Devereux
English
• Canadian literature

Ryan Dunch
History & Classics
• modern East Asian history

Michael Evans
Anthropology
• Social-cultural anthropology focusing on the South Pacific and Western Canada

Lois Harder
Political Science
• Canadian politics with emphasis on political economy

Satoshi Ikeda
Sociology
• globalization

Andrew Knight
Political Science
• international relations

Steven Kruger
English
• medieval literature and contemporary American literature

Chantale LaCasse
Economics
• micro-theory, game theory, industrial organization, law and economics

Elisabeth Le
Modern Languages and Cultural Studies
• applied linguistics, French language and second language acquisition

David Ley
Drama
• voice and speech

John Maheu
Economics
• financial economics and applied econometrics

Vijay Mishra
English
• minority literature, Australian and Aboriginal literature, Gothic literature and devotional literature

Ian Munro
English
• Renaissance literature and culture

Ann Penningroth
Modern Languages and Cultural Studies
• Germanic languages with a concentration in second language acquisition

Andre Plourde
Economics
• energy and natural resource economics

Tanya Prochazka
Music
• private cello instruction, chamber music and Academy Strings

Laurie Radford
Music
• electroacoustic music composition

Julie Rak
English
• Canadian literature

Jane Samson
History & Classics
• British and imperial history

Janet Scott-Hoyt
Music
• private instruction in piano, and piano pedagogy

Mark Simpson
English
• American literature

Robert Smith (chair)
History & Classics
• history in science in the 19th and 20th century

Aara Suksi
History & Classics
• Classics — Greek language and literature

Serra Tinic
Sociology
• media and mass communication

Heather Young-Leslie
Anthropology
• medical and feminist anthropology

BUSINESS

Ian Gellatly
Organizational Analysis
• human relations and personal performance

Yves Gendron
Accounting & MIS
• new-client-acceptance decisions in audit firms

Karen Golden-Biddle
Organizational Analysis
• issues of organizational change, culture, and identity

Jennifer Kao
Accounting & MIS
• impact of competition, capital structure, risk preferences and government policies on disclosure

Jason Lee
Accounting & MIS
• earnings forecasts and financial capital markets

Douglas Olsen
Marketing, Business Economics and Law
• consumer choice, judgment and decision processes in marketing

Andre Plourde
Economics; Marketing, Business Economics and Law (joint)
• international economics

John Pracejus
Marketing, Business Economics and Law
• methods for building brand equity, cultural dimensions of international marketing

Gilles Reinhardt
Finance & Management Science
• congestion, cost allocation, digitalization of tangible products or processes

Leiser Silva
Accounting & MIS
• organizational impacts and management of management information systems

EDUCATION

Robin Everall
Educational Psychology
• suicidal behavior in adolescents and young adults, student counseling

Carol Leroy
Elementary Education
• literacy education

Xin Ma
Educational Psychology
• mathematics education, research and measurement in education

Nancy Melnychuk
Secondary Education
• female senior high school students' experiences in physical education, teacher education of physical education specialists

Stephen Norris (Chair)
Educational Policy Studies
• philosophy of education, science education policy

Linda Phillips
Elementary Education
• literacy education

Leila Ranta
Educational Psychology
• teaching English as a second language, role of learners' analytic ability

David Smith
Secondary Education
• globalization and education, teaching as cultural practice

Alison Taylor
Educational Policy Studies
• educational governance and politics, policy-making processes in education

ENGINEERING

Doug Booth, FSO II
Civil and Environmental Engineering

Richard Brachman
Civil and Environmental Engineering
• geo-environmental engineering, soil-structure interaction, traditional geotechnical topics

Ivan Fair
Electrical and Computer Engineering
• telecommunication systems, computer networks

Selma Guigard
Civil & Environmental Engineering
• supercritical fluid extraction, focus on the extraction of heavy metals from soils and waste streams

Curtis Hrischuk
Electrical and Computer Engineering
• distributed software application

Ian Kermack, Director
Construction Research Institute for Canada (CRIC)
• collaborative research with construction industry partners to improve productivity

Dong-Yang Li
Chemical & Materials Engineering
• wear-resistant materials, physical metallurgy, microstructure engineering, shape memory materials, computational materials science

Qi Liu
Chemical & Materials Engineering
• mineral surface modification

Witold Pedrycz, Director of Computer Engineering
Electrical and Computer Engineering
• efficient transmission techniques and multiple access schemes for third generation wireless access systems

Dwayne Tannant
Civil and Environmental Engineering
• surface and underground mining methods, mine design, engineering geology

Tong Yu
Civil & Environmental Engineering
• microelectrode techniques, bio-film studies

EXTENSION

Robert Berman
• second language acquisition related to the academic performance of international students in an English-language university setting

MEDICINE AND DENTISTRY

Susan Andrew
Medical Genetics
• instability of the mammalian genome and its relevance to human disease

Stephen Archer
Medicine (Cardiology)
• diseases of blood vessels, causes of high blood pressure in the lungs and other organs

Cecil Ash
Dentistry
• orthognathic surgery and oral cancer

Michael Bullard
Emergency Medicine

Lisa Gaede
Family Medicine

Rose Girgis
Pediatrics
• bone metabolism and bone mineral density in insulin-dependent diabetes

Anthony Joyce
Psychiatry
• mechanisms of change in psychotherapy, efficacy of short-term, time-limited forms of psychotherapy

Paul Humphries
Family Medicine
• health care needs of difficult-to-serve populations, interdisciplinary training for collaborative practice, regional health education governance, problem-based learning

Narmin Kassam
Medicine (Geriatrics)
• medical education, particularly in ambulatory care and evaluations

Timothy Kieffer
Medicine (Physiology)
• obesity and type 2 diabetes mellitus, gastrointestinal hormones

Ernest Lam
Dentistry
• pathogenesis and treatment of head and neck, and oral cancer

Allen Liu
Medicine (Pulmonary)
• resident education, critical care medicine, clinical trials in asthma, chronic obstructive pulmonary disease

Richard Long
Medicine (Pulmonary)
• provincial medical consultant for tuberculosis

Karen Madsen
Medicine (Gastroenterology)
• role of bacteria and intestinal permeability in the etiology of Crohn's disease

Laurie Mereu
Medicine (Endocrinology)
• curriculum design and learning theory, evaluation of teaching and learning in the ambulatory setting, clinical trials related to thyroid disease

Evangelos Michelakis
Medicine (Cardiology)
• cellular electrophysiology, systemic hypertension, pulmonary hypertension and high altitude disease

Lakshmi Puttagunta
Laboratory Medicine
• lung pathology and cytopathology

Saifudin Rashedi
Anaesthesia
• chronic pain, particularly in multidisciplinary care, evaluation of chronic pain interventions

Anne Slater
Medicine (Geriatrics)
• diabetes and glucose intolerance in the elderly; economic analysis of the costing and outcomes of diabetes in Ontario elderly

James Shapiro
Surgery
• organ transplantation

Ashfaq Shuaib (divisional director)
Medicine (Neurology)
• research in the area of strokes

Ameeta Singh
Medicine (Infectious Diseases)
• provincial medical consultant for sexually transmitted diseases

David Stuart
Biochemistry
• regulation of the eukaryotic cell cycle in mitosis and meiosis

Darrell Tomkins
Medical Genetics
• study of genomic instability at both the chromosomal and DNA level, relationship between maintenance of genomic integrity and normal development

Winnie Wong
Medicine (Gastroenterology)
• viral hepatitis, immunotherapy for viral hepatitis, clinical epidemiology

Philipp Yoon
Family Medicine
• medical education and organizational analysis

NATIVE STUDIES
Frank Tough, director
• economic history of Aboriginal Peoples

NURSING
Kathleen Hegadoren
• behavioral and biological factors that contribute to women's mental health, especially depression

PHARMACY AND PHARMACEUTICAL SCIENCES

David Feeny
• assessment of health-related quality of life issues

PHYSICAL EDUCATION AND RECREATION

Jane Vallentyne
• children's physical activity

Lisa McDermott
• sociology of sport and leisure

Ronald Plotnikoff (joint appointment with Centre for Health Promotion Studies)
• health psychology, health promotion

Paul Zehr
• neurophysiology

REHABILITATION MEDICINE

Vivien Hollis
Occupational Therapy (chair)
• community care, health promotion, evidence-based practice

SAINT-JEAN
Stephane Vigeant
• economic theory and dynamics of the firm, the effect of regulation on productivity and flexibility

SCIENCE
Colleen St. Clair
Biological Sciences
• interface between behavioral ecology and conservation biology

John Klassen
Chemistry
• mass spectrometry to investigate the structure and reactivity of biological macromolecules in the absence of solvent

Lifang Sun
Chemistry
• molecular recognition as applied to analytical chemistry, new materials for separations and sensing

Arturo Sanchez-Azofeifa
Earth and Atmospheric Sciences
• use of remote sensing and geographic information systems to understand past and present land use trends and their effect on the sustainability of natural resources

Gerda de Vries
Mathematical Sciences
• mathematical modeling with applications in physiology and medicine and nonlinear dynamical systems

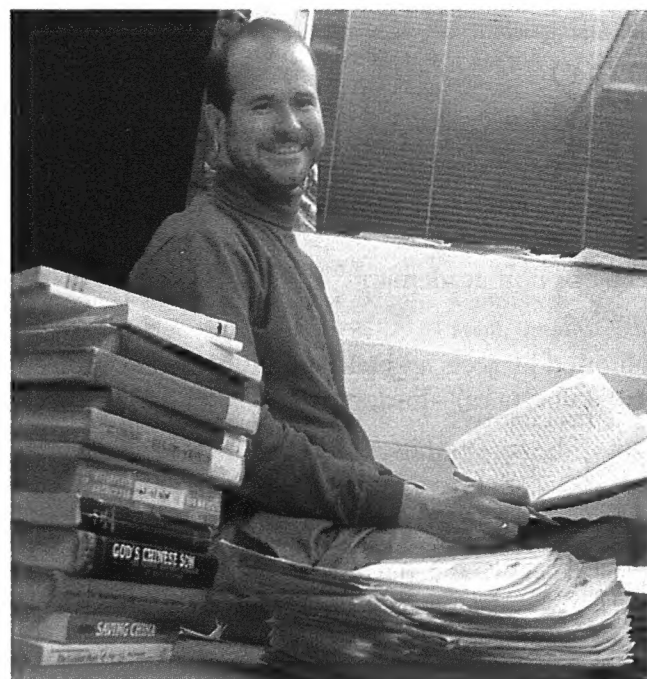
Terry Gannon
Mathematical Sciences
• math related to conformation field theory

Richard Sydora
Physics
• astrophysical and laboratory plasma physics, and computational physics

Manuela Vinciter
Physics
• experimental subatomic physics — works with HERMES experiment in Germany and CERN laboratory in Switzerland

Profile: Ryan Dunch

History and classics



Ryan Dunch in the flurry of marking exams.

The prospect of emerging opportunities in foreign trade with China prompted Aussie Ryan Dunch to take his first degree in Chinese languages at the Australian National University. But as he pursued his master's degree studies at UBC (1989-91), a fascination with history took hold and his doctoral studies at Yale (1991-96) focused on modern Chinese history, specifically the Christian Chinese of the late 19th and early 20th centuries.

With his Canadian wife and their baby daughter, Dunch spent 1993-94 researching this subject in Fuzhou, a city of two million, capital of the province of Fujian in southeast China. City residents showed great interest in the Dunch family, often mobbing them on the street wishing to touch the baby.

Of his study of the Christian Chinese between 1895 and 1920, Dunch notes: "People had looked at this era from the point of view of the missionaries and from the point of view of those who detested the missionaries, but not from the point of view of those who themselves became Christians."

Dunch's current research is on the history of education in modern China, and Christianity in contemporary China after 1978. He also wants to do a biographical study of a Chinese Protestant, Huang Naishang (1849-1924) who, he says, "made quite an impact as, in turn, a pioneering journalist, classical scholar, leader of overseas Chinese emigration, politician, and revolutionary." ■

Profile: Arturo Sanchez-Azofeifa

Earth and atmospheric sciences

Dr. Arturo Sanchez-Azofeifa emanates enthusiasm as he talks about the department's brand new Earth Observation Systems Laboratory. The EOSL is instrumental in Sanchez-Azofeifa's research focusing on changes in land cover, and biodiversity. The laboratory also enables geological remote sensing, under the direction of Dr. Benoit Rivard.

Although research is his passion, Sanchez-Azofeifa says he also enjoys interacting with students, "especially showing them things they have never seen." He has much that is new to show them. After six years at the University of New Hampshire, three as a Fulbright Scholar, he re-



Sanchez-Azofeifa at the new Earth Observation Systems Laboratory with his land cover map of the Fonseca Gulf in Central America.

Profile: Selma Guigard

Environmental engineering

Edmonton has been a pleasant surprise for Selma Guigard. The river valley and ravine walking trails remind her of her native Ottawa. And having taken her undergraduate degree in Grenoble, France, she is especially delighted with our city's vibrant francophone milieu. Along with her husband and 2 1/2-year-old daughter, Guigard came to Edmonton from the University of Guelph to take a position in Environmental Engineering. She enjoys teaching and is continuing her research in supercritical fluid extraction.

"I'm working on trying to develop one technology to remove both organic and inorganic contaminants from soils and waste streams. Supercritical fluid extraction involves using carbon dioxide under high pressure, with a temperature of around 31 degrees Celsius, which gives it very different properties. It's not a gas, not a liquid — that's why it's called a supercritical fluid. Carbon dioxide has zero surface tension and low viscosity so it can get into every nook and cranny," she explains. It's a similar process, she says, to the one Maxwell House uses to decaffeinate coffee.

Guigard says that the helpfulness of department colleagues and the Faculty of

Engineering's excellent orientation program have made her transition to the University of Alberta very pleasant. On the weekends, you might find her with her family at the Strathcona Farmers' Market or at Sorrentino's enjoying what she describes a "great" pizza. ■

Guigard says that the helpfulness of department colleagues and the Faculty of

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Guigard says that the helpfulness of department colleagues and the Faculty of



Minus 20 degrees doesn't stop environmentalist Selma Guigard from cycling to campus.

"Some of the things I am looking at are

how national parks are serving the

purpose of conservation and, if there is

encroachment, trying to determine why

that is."

—Arturo Sanchez-Azofeifa

A very exciting new field in which Costa Rica is a world leader is bioprospecting, says Sanchez-Azofeifa. "It's looking at biological resources for their potential economic value." He works with universities, government agencies and pharmaceutical companies to help identify land areas where sampling plants, insects, microorganisms or fragrances might yield the best results.

Now that he is here, he is excited about starting to work with the Alberta Environmental Protection agency to map some of Alberta's land resources. ■

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††Requires additional software under Windows 4.0. Prices quoted for Canada only.

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In memoriam

Dr. Robert Hall Haynes, OC, PhD, DSc, FRSC, passed away at his home in Toronto on Dec. 21, 1998 from a heart attack, aged 67. Dr. Haynes received an honorary Doctor of Science degree from the U of A during convocation ceremonies last November.

Dr. Haynes was a distinguished research biologist who had a long and celebrated career as a leader in research and scientific policy in Canada. He was best known for his pioneering research on the ways in which cells are able to repair the many types of damage that chronically afflict the genetic material (DNA) of all organisms. During the past 30 years there has been a veritable explosion of research worldwide on DNA repair, and this, in turn, has led to important breakthroughs in understanding cancer, certain genetic diseases, aging, speciation and sex, as well as the biological effects of exposure to

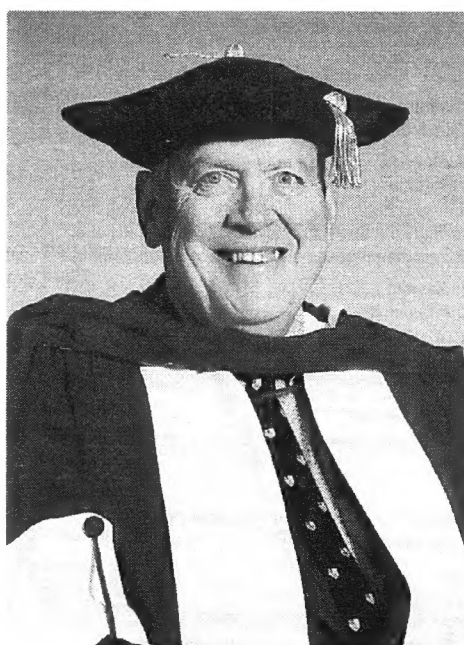
radiation and mutagenic chemicals. In 1995 Dr. Haynes was named the 104th president of the Royal Society of Canada. He received many national scientific awards and in 1990 was made an Officer of the Order of Canada.

Dr. Haynes delivered a warm, powerful and well-received convocation address. The following excerpt may provide some insight into his philosophy.

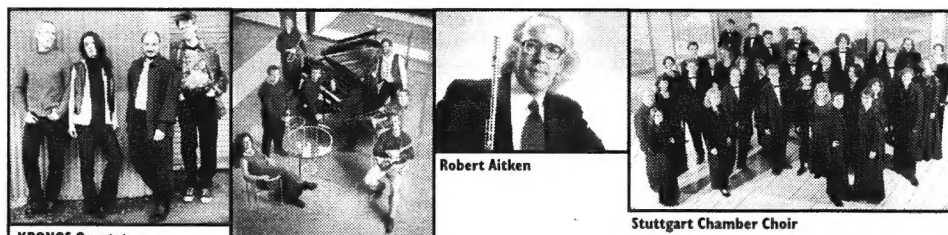
"I was offered opportunities on a silver platter, but you will have a chance to catch the brass ring. Thus, your success should mean more to you than mine ever could. May I suggest a recipe, based on my own experience, for grasping it? First, join or create a network of like-minded individuals, both friends and competitors. Through such networks, and the 'invisible colleges' of your fields you will obtain the feedback, positive, negative and stabilizing, that will sustain and excite you. Second, sharpen your wits and experience with others in your own field, but be not afraid to cross boundaries and work, self-taught, in other areas. Third, be and have a mentor, stay close to people younger than yourself—they are smarter than you think. And nothing is as satisfying as nurturing the talents of another.

Finally, bring courage, commitment and enthusiasm to whatever you do, as well as hard work and determination in finishing the tasks and projects you begin. As in chess, the prizes go to the masters of the end game."

At the time of his death, Dr. Haynes was Distinguished Research Professor Emeritus of Biology at York University, where he had been on the faculty since 1968. York will hold a memorial service for Dr. Haynes on Jan. 21, 1999. He is survived by his wife, Dr. Jane Banfield, a professor in the law and society program at York University. ■



Dr. Robert Hall Haynes



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Submit talks to Tamie Heisler by 9 a.m. one week prior to publication. Fax 492-2997 or e-mail at public.affairs@ualberta.ca.

ACADEMIC WOMEN'S ASSOCIATION

January 19, 7:30 pm
Lois Hole, Chancellor, "Sharing Experiences."
RSVP by January 15 to Tana Farrell at 492-5910 or e-mail Tana.Farrell@ualberta.ca. Open to all academic women. 10th Floor, Education South.

ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

January 25, 10 am
Richard A. Murphy, Director and Professor, Montreal Neurological Institute, "Differential Sorting of NGF and BDNF in Hippocampal Neurons: Clues to the Regulation of Growth Factor Delivery in Brain." Presented by Cell Biology. 5-10 Medical Sciences Building.

BIOLOGICAL SCIENCES

DEPARTMENTAL SEMINAR SERIES

January 15, noon
Mark J. Plotkin, "In Search of the Shaman's Vanishing Wisdom. Do the Mythical Healing Powers of the Shaman Harbour a Cure for Cancer, AIDS, or the Common Cold?" M-149 Biological Sciences Building
January 29, 3:00 pm
Stanley B. Kater, "The Other Half of the Brain: Glial Contributions to Nervous System Function." 3-27 Earth Sciences Building

ECOLOGY SEMINAR SERIES (PART OF THE BIOLOGY 631 SERIES)

January 15, noon (Postponed to April 9th due to conflict with Mark J. Plotkin's Seminar)
Arturo Sanchez, "Countryside Biogeography: Monitoring Tropical Deforestation and Habitat Fragmentation at the National and Regional Level, A Case Study in Costa Rica." G-116 Biological Sciences Building
January 22, noon
Larry Stevens, "Grand Canyon Corridor." G-116 Biological Sciences Building
January 29, noon
Christoph Rohner, "Predator-Prey Cycles in the Boreal Forest: Behavioural and Population-Level Consequences in Owls." G-116 Biological Sciences Building

ENVIRONMENTAL BIOLOGY & ECOLOGY RESEARCH GROUP

January 22, 1999, 3:30 pm
Bernie Roitberg, "The Importance of Behaviour to Disease Epidemiology: An Evolutionary Approach." M-145 Biological Sciences Building

MOLECULAR BIOLOGY AND GENETICS RESEARCH GROUP (PART OF THE GENETICS 605 SERIES)

January 15, 1999, 3:30 pm
Mike Weinfeld, "Radiation Induced DNA Damage and the Base Excision Repair Pathway." G-116 Biological Sciences Building
January 22, 1999, 3:30 pm
James Smiley, "Post-Transcriptional Regulation During Herpes Simplex Virus Infection." G-116 Biological Sciences Building

PHYSIOLOGY AND CELL DEVELOPMENTAL BIOLOGY SEMINAR SERIES (PART OF THE BIOLOGY 642 SERIES)

January 20, noon
Dave Gifford, "Why Would Anyone Study Conifer Seeds When you Could Work with Arabidopsis, Eh?" G-114 (please note room change) Biological Sciences Building
January 27, noon
Calvin Wong, "Neural Substrates of Electrocommunication in Weakly Electric Fish." G-114 Biological Sciences Building

CANADIAN FEDERATION OF UNIVERSITY WOMEN (EDMONTON)

January 18, 7 pm
The Club History Interest Group will present "Edmonton CFUW—A 90 Year History." As well, this meeting is "Academic Awards Night", with the recipients of 1998 scholarships speaking about their research topics. All women University graduates are welcome. Information: 469-8322. Faculty Club, 11435 Saskatchewan Drive.

CENTRE FOR HEALTH PROMOTION STUDIES

January 25, noon
Karen Mykietka, "Teen Mothers: Their World Portrayed." Classroom A, 2F1.01 Mackenzie Health Sciences Centre.

COLLECTION ACTION AND WOMEN'S ORGANIZATIONS IN EDMONTON

January 27, 3 pm
Jayanti Negi of the Indo-Canadian Women's Association; lone Challborn, representative of WIN House women's shelter; Jacqueline Duman, owner of Orlando Books; and Tracy-Lynne MacLellan, student activist and feminist at the University of Alberta, "Breaking New Ground in Alberta's Communities: A Public Forum on the Theory and Practice of Activism." 4-29 Humanities Centre.

EARTH AND ATMOSPHERIC SCIENCES

January 15, 3 pm
Ben Rostron, "Orchids and Groundwater in Alberta." 3-36 Tory Building.
January 22, 3 pm
Melody Larsen-Heise, title to be announced. 3-36 Tory Building.
January 29, 3 pm
Karen Smoyer, "Health in the Greenhouse: Climate Change and Human Health." 3-36 Tory Building.

ENGLISH

January 26, 4:00 pm
Tim Fulford, Nottingham Trent University, "Primitive Poets and Dying Indian." L-3 Humanities Centre.

ENVIRONMENTAL RESEARCH AND STUDIES CENTRE

January 27, 4:30 pm
"Kyoto: Alberta's Reaction." Moderator: Gurston Dacks. Panelists: Vic Adamowicz; Rick Hyndman, former Deputy Minister, Alberta Energy; Gord Lambert, Corporate Director, Suncor; Rob Macintosh, Policy Director, Pembina Institute; David Schindler. 2-115 Education North.

HOPE FOUNDATION

January 19, 7 pm
Cheryl Nekolaichuk, "The Nature of Hope in Palliative Care." Hope House, 11032 - 89 Avenue.

JOHN DOSSETOR HEALTH ETHICS CENTRE

January 22, noon
Eleanor Stewart Muirhead, "Disability Theory: Social Justice for People with Disabilities." 227 Aberhart Centre Two.

NURSING

January 28, noon
International Committee, "International Issues." 6-102 Clinical Sciences Building.

PHILOSOPHY

January 22, 3:30 pm
Brendan Leier, "Schopenhauer's Contribution to Ethics." 4-29 Humanities Centre.

PHYSICS

January 22, 3:15 pm
Robert Smith, "Edwin P. Hubble, the Expanding Universe, and the Remaking of cosmology." V-129 Physics Building.

PHYSICS AND INSTITUTE OF GEOPHYSICS, METEOROLOGY AND SPACE PHYSICS

January 15, 3:15 pm
Mike Brown, Chair, Geophysics Program, University of Washington, Seattle, "Condensed Matter Physics in the Service of the Earth Sciences." V-129 Physics Building.

PHYSIOLOGY

January 29, 3:30 pm
Sandra T. Davidge, "Estrogen and Vascular Function." 207 Heritage Medical Research Centre.

RENEWABLE RESOURCES

January 21, 12:30 pm
Leslie Main Johnson, "Knowing the Land: Indigenous Perspectives on Landscape Ecology in Northwestern North America." 2-36 Earth Sciences Building.

SOCIETY OF SIGMA XI, U OF A CHAPTER

January 27, 8 pm
Linda Fedigan, "Regenerating Monkeys: What Happens When the Forest Grows Back?" 2-07 Corbett Hall. Preceded by wine and cheese at 7:30 pm in 2-35 Corbett Hall.

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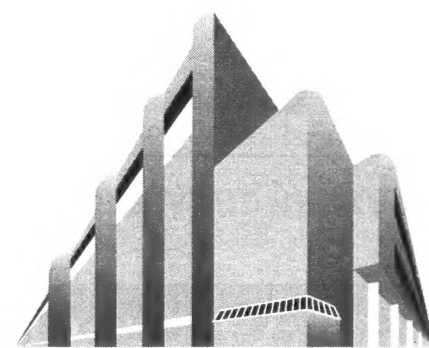
Full details and an official entry form are downloadable at:

www.ualberta.ca/TRG/graphic/images99.htm

or are available from all Bookstore locations (SUB, HUB, Extension Centre) or Graphic Design and Photography Services (4-31 Mechanical Engineering and 106 Temporary Lab).

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Request for Applications

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Qualifying projects must:

1. be of value to both the public and the University of Alberta;
2. be consistent with the general aims and purposes of the University;
3. not normally be funded by the University;
4. originate from within Alberta.

Preference will be given to projects that emphasize the humanities and the arts. Applications, which must be received in complete form by **17 February**, are available from:

The Senate

University of Alberta
150 Athabasca Hall
Edmonton, AB T6G 2E8
Phone: 492-2268 Fax: 492-2448
E-mail: senate.office@ualberta.ca

U of A Accommodation Guide

These facilities have contracted with the University of Alberta to provide accommodations at the rates indicated. Each facility has unique features and offers something to suit everyone's taste.

To accommodate special guests to the University, reservations can be made using the Hotel Authorization Program (HAP) form which allows post-payment by the hosting department.

These rates are per night and are exclusive of convention conference rates which are established by conference/convention organizers. Rates valid to December 31, 1998 unless otherwise noted, taxes not included.



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positions

The University of Alberta is committed to the principle of equity in employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities. In accordance with Canadian Immigration requirements, preference will be given to Canadian citizens and permanent residents.

FACULTY OF MEDICINE AND DENTISTRY/ CAPITAL HEALTH AUTHORITY, RECRUITMENT MEDICAL DIRECTOR, CLINICAL TRIALS CENTRE (CTC)

The Faculty of Medicine & Dentistry and the Capital Health Authority are accepting applications for the position of Medical Director of the Clinical Trials Centre.

The Director must already hold a position with the University of Alberta and/or the Capital Health Authority. We are seeking a MD with extensive experience in both research and administration and who has an excellent reputation in the pharmaceutical industry. The Director will have excellent interpersonal and communication skills and outstanding organizational capabilities. It will be necessary to have proven marketing experience with complete understanding of Clinical Trials processes.

Reporting to the Executive Vice President & Chief Clinical Officer of the CHA and the Associate Dean (Research), Faculty of Medicine and Dentistry, the Director will have overall responsibility, including financial, and accountability for the Centre and will set the strategic direction and undertake the long-term planning for the facility. The Director will be responsible for scientific integrity and patient safety relating to clinical trials conducted at the Centre.

The Director will develop sales and marketing strategies; develop and implement effective business plans; ensure effective communication and rapid resolution of issues between clinical investigators. It is the responsibility of the Director to develop and maintain annual budgets and provide guidance and supervision to Managerial and Administrative staff.

The Director will actively communicate with Pharmaceutical Companies, Government Agencies, Potential Customers, Director of the Alberta Health Research Institute and serve as the primary link between the CTC, the Faculty and CHA.

The Medical Director will be compensated for committing a minimum of 50% - 75% of his/her time to the Centre.

Interested individuals are invited to apply in writing by January 31, 1999 to:
Search & Selection Committee,
Medical Director, CTC
c/o Dr. J.H. Weiner, Associate Dean (Research)
Faculty of Medicine and Dentistry
2J2 Mackenzie H.S.C.
University of Alberta
Edmonton, Alberta T6G 2R7
Please include curriculum vitae along with the names of three referees.

FACULTY POSITION FACULTY SERVICE OFFICER FOR COMPUTING

FACULTY OF REHABILITATION MEDICINE

Applications are invited for a full-time position as Faculty Service Officer II (FSO) in the Faculty of Rehabilitation Medicine at the University of Alberta. The Faculty is comprised of three Departments: Occupational Therapy, Physical Therapy and Speech Pathology and Audiology.

The qualified candidate will serve as the LAN administrator and supervisor (network services, electronic mail and Internet administration; disaster recovery). The successful candidate will also assume responsibility for computing support in the Faculty; supervise support staff; participate on Faculty committees; will provide general computer instruction to staff and students, and assist with instruction in assistive technologies. The successful candidate will also develop a computing support plan for the Faculty; participate in the use of technologies in the development of innovative teaching methods and delivery options, including distance education and Internet access, and will support computing technology for research endeavours in the Faculty.

Salary will be commensurate with qualifications at the Faculty Service Officer (FSO) Level II (\$40,638 to \$57,510 per annum). The position is available immediately. Closing date for applications is February 1, 1999, however applications will be accepted until the position is filled. Send resume and names of three references to:

Dr. Albert Cook, Dean
Faculty of Rehabilitation Medicine
University of Alberta
3-48 Corbett Hall
Edmonton, Alberta T6G 2G4
Phone: 403-492-5991 Fax: 403-492-1626
al.cook@ualberta.ca

MANAGER, ALUMNI GROUPS TERM CONTRACT (MATERNITY LEAVE) OFFICE OF ALUMNI AFFAIRS

The Manager, Alumni Groups works closely with volunteers from 18 different constituent alumni associations to provide administrative support, prepare monthly financial statements, oversee the collection of membership dues, and coordinate the production and distribution of newsletters. This position is also responsible for planning several major events for the alumni groups.

The ideal candidate holds a university degree, has several years related experience in public relations or event coordination, possesses excellent writing and verbal communication skills, and has proficiency with word processing. This is a part-time (3 days per week) term contract for maternity leave coverage from March 9, 1999 to September 17, 1999.

The deadline for application is January 25, 1999. Resumes should be forwarded to:

Office of Alumni Affairs
450 Athabasca Hall
University of Alberta
Edmonton AB
T6G 2E8
Fax: (403)492-1568

MANAGER, SPECIAL EVENTS

An individual with excellent planning, writing and marketing skills is required to coordinate Alumni Association special events, provide organizational support for class reunions, oversee a class representative program, prepare submissions for the alumni magazine, and assist in strategic planning for the Office of Alumni Affairs.

Qualified applicants should have a university degree with several years of experience in public relations, including special event and volunteer coordination.

Salary Range: \$34,068 - \$43,440 per annum, supplemented by a comprehensive benefits program. The deadline for application is January 25, 1999.

Resumes should be forwarded to:

Office of Alumni Affairs
450 Athabasca Hall
University of Alberta
Edmonton AB
T6G 2E8
Fax: (403)492-1568

RESEARCH CHAIR IN MOLECULAR BIOLOGY OF BEEF CATTLE PRODUCTION

The Department of Agricultural, Food and Nutritional Science at the University of Alberta invites applications for a Canada-Alberta Beef Industry Development Fund Chair in the area of Molecular Biology of Beef Cattle Production. The tenure-track appointment will be made at the Associate or Full Professor level with a balance of 75% research and 25% teaching.

The appointee will develop a world-class research and teaching program on the application of molecular biology techniques to the improvement of beef and beef cattle production. The Chair is mandated to enhance cooperation between scientists and other stakeholders in an Alberta beef research network which include the University of Alberta, Alberta Agriculture, Food and Rural Development (AAFRD), and the Agriculture and Agri-Food Canada (AAFC) Research Centres at Lethbridge and Lacombe. The research program coordinated by the Chair will involve the use of molecular techniques such as genomic analysis, linkage mapping and identifying genes responsible for variation in traits of economic importance, and the study of factors regulating gene expression. These molecular approaches will be integrated with experimental models currently in place in Alberta to study the physiological processes underlying production. The candidate will possess a Ph.D. in a scientific discipline relevant to the study of the molecular biology of cattle, will have an established research record in molecular biology and a commitment to its application in research on bovine physiology and beef production. Demonstrated leadership ability, excellent communication skills and a strong commitment to technology transfer are essential. The University of Alberta has excellent on-campus research facilities and equipment, including a state-of-the-art Molecular Biology and Biotechnology Centre, numerous specialized analytical laboratories, a large animal metabolism unit, and a research ranch which includes a herd of 500 beef cows (for further details, see www.afns.ualberta.ca). In addition, the

Chair will have access to AAFC research stations in Lacombe and Lethbridge which offer an additional range of facilities and research strengths in many complementary areas including rumen microbiology/biotechnology and meat science. Applications, including a statement of research and teaching interests, curriculum vitae, and the name of three referees should be sent by January 31, 1999 or until a suitable candidate has been found, to Dr. John Kennelly, Chair, Department of Agricultural, Food, and Nutritional Science, University of Alberta, Edmonton, Alberta, Canada, T6G 2P5. For further information on this position, contact Dr. Kennelly at (403) 492-2131 / fax (403) 492-4265 / e-mail: chair@afns.ualberta.ca or visit our web site.

FACULTY POSITIONS, UNIVERSITY OF ALBERTA FACULTY OF REHABILITATION MEDICINE, DEPARTMENT OF OCCUPATIONAL THERAPY

Applications are invited for two full time academic positions at the University of Alberta, Department of Occupational Therapy for July 1, 1999 or earlier if suitable candidates are found.

The Faculty of Rehabilitation Medicine, consisting of Departments of Occupational Therapy, Physical Therapy, and Speech and Language Pathology, is the single occupant in a recently renovated facility that provides excellent resources for teaching and learning. The Department of Occupational therapy offers B.Sc. and M.Sc. degrees in Occupational Therapy and participates fully in an interdisciplinary Ph.D. degree program in Rehabilitation Science.

1. Academic Coordinator of Clinical Education

This Assistant Professor clinical-track position is responsible for managing the day-to-day operations of the fieldwork curriculum. This will include development of fieldwork sites, supervising students in non-traditional placements and counseling students are required. Candidates must possess a minimum of a B.Sc. OT plus a M.Sc. degree. Knowledge of curriculum development an asset. Teaching at the undergraduate level will be required. Minimum 3-year appointment.

2. Clinical Track Teaching Appointment (Occupational) Therapy Generalism

Candidate must possess B.Sc. OT and M.Sc. degrees. As this is a clinical position, indicators of teaching proficiency are required. Experience in curriculum development an asset. Minimum 3-year appointment at the Assistant Professor level.

Salary for both positions will be commensurate with qualifications. Closing date for applications is February 19, 1999, but applications will be accepted until positions are filled. Qualified applicants should send a curriculum vitae, a statement of teaching interests, and the names of three (3) references to:

Dr. A. Cook, Dean
Faculty of Rehabilitation Medicine
3-48 Corbett Hall
University of Alberta
Edmonton, Alberta, Canada
T6G 2G4
Phone: (403) 492-5991 Area code 403 changes to 780 January 25, 1999
e-mail: albert.cook@ualberta.ca

Further information on the position may be obtained by contacting: Dr. Vivien Hollis, Department Chair, Fax (403) 492-1626, e-mail: vhollis@ualberta.ca

FACULTY POSITIONS, UNIVERSITY OF ALBERTA FACULTY OF REHABILITATION MEDICINE, DEPARTMENT OF OCCUPATIONAL THERAPY

Applications are invited for one full time tenure-track position specializing in Neuroscience at the University of Alberta, Department of Occupational Therapy for July 1, 1999 or earlier if suitable candidates are found.

The Faculty of Rehabilitation Medicine, consisting of Departments of Occupational Therapy, Physical Therapy, and Speech and Language Pathology, is the single occupant in a recently renovated facility that provides excellent resources for teaching and learning. The Department of Occupational Therapy offers B.Sc. and M.Sc. degrees in Occupational Therapy and participates fully in an interdisciplinary Ph.D. degree program in Rehabilitation Science.

Successful applicants will be expected to teach in the undergraduate and graduate program and maintain an active research profile. Candidates must possess a Ph.D. degree. A background in occupational therapy is preferred, but other areas will be considered. Evidence of successful grant applications will be advantageous.

Rank and salary will be commensurate with qualifications at the Assistant Professor or Associate Professor level. Closing date for applications is February 19, 1999, but applications will be accepted until positions are filled. Qualified applicants should send a curriculum vitae, a statement of teaching and research interests, and the names of three (3) references to:

Dr. A. Cook, Dean
Faculty of Rehabilitation Medicine
3-48 Corbett Hall
University of Alberta
Edmonton, Alberta, Canada
T6G 2G4
Phone: (403) 492-5991 Area code 403 changes to 780 January 25, 1999
e-mail: albert.cook@ualberta.ca

Further information on the position may be obtained by contacting: Dr. Vivien Hollis, Department Chair, Fax (403) 492-1626, e-mail: vhollis@ualberta.ca

1999-2000 KILLAM ANNUAL PROFESSORSHIPS



Applications for the 1999-2000 Killam Annual Professorships are now available. All regular, continuing, full-time, academic faculty members who are not on leave during 1999-2000 are eligible to apply. Deans, department chairs and other senior university administrators with personnel responsibilities shall not normally be eligible for Killam Annual Professorships. Associate deans and associate department chairs are eligible providing they do not have personnel responsibilities. Up to eight Killam Annual Professors will be selected by a subcommittee of the Killam Trusts Committee; no more than two professorships shall be awarded to staff members in any one faculty. Each Killam Annual Professor shall be presented with a \$2500 prize and a commemorative scroll. The duties of Killam Annual Professors shall not be changed from those that they regularly perform as academic staff members.

The primary criterion for selection shall be a record of outstanding scholarship and teaching over three or more years as evidenced by any or all of research publications, creative activities, presented papers, supervision of graduate students,

and courses taught. The secondary criterion shall be substantial contributions to the community beyond the university, as evidenced by community involvement directly linked to the applicant's university responsibilities and activities.

Awards are tenable for 12 months commencing July 1, 1999. The completed application must be received at the Office of the Vice-President (Research and External Affairs), 3-7 University Hall, by Friday, February 26, 1999 at 4:30 pm. The awardees shall be announced by early May, and they will be formally recognized at the Killam Dinner in the autumn of 1999.

Applications and further details are available on the home page of the Vice-President (Research and External Affairs) at: <http://www.ualberta.ca/~univhall/vp/vprea/awards.html>

Please contact Annette Kujda, administrative assistant, Office of the Vice-President (Research and External Affairs) at extension 8342 or email: annette.kujda@ualberta.ca if you have any questions.

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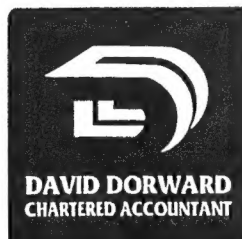
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J. GORDIN KAPLAN AWARD WINNERS ANNOUNCED

Dr. Roger Smith, vice-president (research and external affairs), is pleased to announce the 1999 J. Gordin Kaplan Award winners for excellence in research: Dr. Susan McDaniel, Department of Sociology and Dr. David Schindler, Department of Biological Sciences.

Dr. McDaniel has distinguished herself as one of the most innovative and important sociologists of our time, accomplishing pioneering work on a variety of important sociological issues. She has applied conventional tools of demography to unconventional questions, blazing a path of new research areas for others to follow. She has helped sensitize sociology to the importance of gender as a variable in sociological research. Dr. McDaniel is editor of *Current Sociology* and sits ex officio on the executive council of the International Sociological Association.

Dr. Schindler is an international leader in the field of freshwater ecosystems, with numerous works published in *Nature* and *Science*. He is an outstanding leader and spokesman for the application of research in public policy development for environmental regulations. His findings have spurred major changes in public policy, such as the phosphorus content in detergents and acid emissions into the atmosphere. He has also been the focal point for developing a world-leading group of limnologists in the biological sciences department. Dr. Schindler was the first winner of the Stockholm Water Prize.

RESEARCH INNOVATION AWARD

Dr. Dennis Hall, Department of Chemistry, has received a Research Innovation Award from the Research Corporation of Tucson, Ariz. The \$35,000 award supports original, innovative scientific research and will benefit a project titled "Oligosaccharide selective recognition using a synthetic boromer library." Research Corporation is a foundation for the advancement of science and encourages work by scientists early in their academic careers in PhD-granting departments of chemistry, physics and astronomy. For further information: www.rescorp.org.

MUSIC

January 24, 3 pm
Master of Music Recital: Colin Armstrong, choral conducting. Convocation Hall, Arts Building.

January 24, 8 pm
Faculty Recital: Janet Scott-Hoyt, with Michael Massey. Admission: \$10/adult, \$5/student and senior. Convocation Hall, Arts Building.

January 25, noon
Noon-Hour Organ Recital: The recital presents a variety of organ repertoire performed by students from the Department of Music.

January 29, 8 pm
Music at Convocation Hall Series featuring faculty members Martin Riseley (violin), Tanya Prochazka (cello) and Stéphane Lemelin (piano). Program will include Schubert *Piano Trio in E-flat* and Tchaikovsky *Piano Trio*. Admission: \$10/adult, \$5/student and senior. Convocation Hall, Arts Building.

January 30, 8 pm
Visiting Artist Recital featuring Robert Spring with Allison Storochuk, clarinets. Admission: \$10/adult, \$5/student and senior. Convocation Hall, Arts Building.

VIZROOM OPENING

The grand opening of the new University of Alberta visualization facility (VizRoom) will be held on Jan. 27, 1999 starting at 7 p.m. in room 619, General Services Building. The main component of this facility is an immersive virtual reality system known as a Cave™. Tours of this facility will be available after 8 p.m. on Jan. 27, and from 2 - 5 p.m. on Jan. 28 in room 602, General Services Building. For further information, please call: David Epp, Research Institute for Multimedia Systems (RIMS), at 492-2428.

EFF - UNIVERSITY TEACHING RESEARCH FUND APPLICATION DEADLINE

The deadline for receipt of applications to the EFF - University Teaching Research Fund is February 15, 1999.

This fund was established to encourage and support research on teaching-learning. The primary purpose of this fund is to enhance the level and quality of teaching research and curricula development in the University. Funding priorities include research projects that have the potential of contributing to the increased effectiveness of university teaching, learning, and curricula development.

Application forms are available from the Office of the Associate Vice-President (Academic), 3-12 University Hall or call local 3836.

PRESIDENTIAL REVIEW COMMITTEE: FACULTY NOMINATIONS

Dr. Roderick Fraser has advised the Board Chair, Mr. Eric Newell, of his intention to stand for a second term of office as president. The Board of Governors, in accordance with GFC- and Board-approved procedures set out in section 102.1(C) of the GFC policy manual, is therefore establishing a review committee. Service on this committee involves a significant time commitment.

The composition of the presidential review committee includes three members of the continuing full-time and continuing part-time faculty (Categories A1.1, A1.5 or their counterparts in A1.6) who do not hold administrative positions as defined in section 22.3.2(4) of the GFC policy manual. Staff who are on leave are not eligible to serve.

Written nominations supported by the signatures of five members of the continuing full-time and/or continuing part-time academic staff (ie. faculty, APOs, FSOs, librarians), not including the

nominee, may be submitted to the director of the University Secretariat, Ellen Schoeck, 2-5 University Hall. **Nominations must be received in the University Secretariat by Monday, February 1, 1999, 4:30 pm**. Nominees must agree to stand for election to the review committee. GFC regulations require that nominees should not be holders of an administrative position, such as dean or department chair, since administrators are already represented on the review committee. The composition of this 16-member presidential review committee, together with nomination and election procedures, are contained in section 102 of the GFC policy manual, which is available in the University Secretariat (2-5 University Hall) and on www.ualberta.ca/~unisecr/. If you have any questions about eligibility to serve or to nominate, please call Ellen Schoeck at local 5430.

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SW RIVERBEND - Ryan Place upscale executive condo with two bedrooms, like new. \$1475/month. Immediate. Janet Jenner-Fraser, Gordon W.R. King & Assoc. Real Estate, 441-6441.

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CAREER FORUMS

Career and Placement Services is hosting the following Career Forums:

English — Tuesday, Jan. 26, 3 p.m. Room TBA
Marketing — Wednesday, Jan. 27, 5 p.m. Room TBA
Human Resources — Tuesday, Feb. 2, 5 p.m. Room TBA
Anthropology — Thursday, Feb. 4, 5 p.m. Room TBA

For more information: www.ualberta.ca/caps or call 492-4291.

CHEMICAL AND MATERIALS ENGINEERING CHAIR SELECTION COMMITTEE INVITES INPUT

A chair selection committee for the Department of Mechanical Engineering has been established. Suggestions and comments to this committee are to be made before Friday, Feb. 5, 1999, by writing to Dr. D.T. Lynch, dean, Faculty of Engineering, 5-1 Mechanical Engineering Building.

MECHANICAL ENGINEERING CHAIR SELECTION COMMITTEE INVITES INPUT

A chair selection committee for the Department of Mechanical Engineering has been established. Suggestions and comments to this committee are to be made before Friday, Feb. 5, 1999, by writing to Dr. D.T. Lynch, dean, Faculty of Engineering, 5-1 Mechanical Engineering Building.

SUMMER YOUTH UNIVERSITY: FEEDBACK REQUEST

Summer Youth University (SYU), a one-week program aimed at junior and senior high-school students, has been offered at the U of A through the Faculty of Extension for the past 14 years. In 1998, Special Sessions managed the program for the Faculty of Extension. Offered in July, SYU is an opportunity for young students to sample university courses, as well as experience the U of A campus.

Many faculties and departments have supported SYU by offering courses to showcase their various disciplines. In addition, U of A graduate students have gained valuable instructional experience.

Feedback from SYU students and instructors has been positive. SYU, which operates on a cost-recovery basis, has been experiencing decreasing enrolments in recent years. Tuition for SYU has remained at a level that is consistent with the goal of accessibility to the program by all students who wish to attend, however, costs associated with running the program have continued to rise.

With the transfer of responsibility of the Special Sessions unit to the Office of the Registrar and Student Awards, SYU has been suspended for the 1999 session to provide the opportunity to evaluate if, and in what format, SYU should continue. We encourage interested departments to contact Roxanne Broadbent at 492-4915, for their opinions regarding the continuance of this program.

TREADMILL THERAPY FOR PEOPLE WITH INCOMPLETE SPINAL CORD INJURY

We are looking for subjects who have incomplete spinal cord injuries to participate in experiments examining the effectiveness of treadmill therapy.

For information, contact Dr. Monica Gorassini at 492-2258 (mag4@gpu.srv.ualberta.ca) or Dr. Jaynie Yang at 492-3112.

WURCNET OFFERING JUST-IN-TIME TRAINING IN HOT TECHNOLOGY AREAS

A "just-in-time" training program is being launched this month by WurcNet to meet a critical need for people trained in advanced networking, computing and multimedia. The Virtual Training Program is designed to keep pace with the rapidly changing world of advanced technology. By developing and delivering courses in short order, this program focuses on the immediate needs of users in research, industry and education. The next workshop, Introduction to Advanced Multimedia, will be held Jan. 26 and 27 in the Learning Commons at the University of Calgary. Instructors include well known Calgary faculty members and professionals working in multimedia. Workshops in Edmonton and Calgary on advanced networking, parallel computing and distributed memory programming are also scheduled for the spring.

WurcNet is a not-for-profit alliance of education institutions, industry partners and government agencies facilitating the next-generation Internet and advanced computational infrastructure for Alberta. For workshop information, call (403) 220-6778. For more information about the Virtual Training Program:

Douglas MacLeod, Director of Projects, WurcNet (403) 609-3642 or Douglas Bowman, Advanced Applications Specialist, WurcNet (403) 220-8169.

For more information about WurcNet: www.wnet.ca

As a part of International Week '99

The Environmental Research and Studies Centre
presents

KYOTO: ALBERTA'S REACTION

- Will Canada meet its commitment to reduce greenhouse gases that cause climate change?
- Why did the oil and gas sector and the Alberta government speak out against Canada's signing of the Kyoto Protocol?
- Environment Minister Christine Stewart congratulated the industry and the province for making progress and suggested it was individual Canadians who needed to commit to the cause. How valid is her position on greenhouse gases?

These questions and more will be the focus of this panel discussion.

Moderator:

Dr Gurston Dacks (Department of Political Science)

Panelists include:

Dr Vic Adamowicz (Department of Rural Economy)

Dr Rick Hyndman (Former Deputy Minister, Alberta Energy)

Mr Gord Lambert (Corporate Director, Suncor)

Mr Rob Macintosh (Policy Director, Pembina Institute)

Dr David Schindler (Department of Biological Sciences)

Date: Wed, January 27, 1999 4:30 PM

Place: Education Building North 2-115
University of Alberta

Contact: Beverly Levis @ualberta.ca
<http://www.ualberta.ca/ERSC>
Tel: 492-5825



Environmental
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This series is made possible by funding from TransAlta.

The big white bear

is on a diet

By Roger Armstrong

"If you mind what you're doing, it's no more dangerous working with polar bears than it is driving to work. Actually it's probably more dangerous driving to work."

— Dr. Ian Stirling, adjunct professor of biological sciences and research scientist with the Canadian Wildlife Service.



Dr. Ian Stirling has been researching polar bears in the vicinity of Churchill, Man. for more than 20 years. He's found that while polar bears on the western side of the Hudson Bay are traditionally bigger and more productive than other polar bears, these differences have been declining. "These are bears that were very, very fat before and had by far the highest reproductive rates of polar bears anywhere in the world," says Stirling.

Over a 20-year period, male bears have lost 80-100 kilos and females half as much. Despite this loss of weight and declining reproductive rate, the population has remained roughly the same at about 1,200 bears and the new rates are similar to other polar bear populations in the Arctic.

While the Hudson Bay polar bears are not in danger yet, the trend is clear. If it continues in this direction it will become problematic, says Stirling. Hudson Bay is one of the least-known bodies of water in North America. Over the past 30 years, western Hudson Bay has warmed by 1.2 degrees Celsius. This small increase means the ice breaks up approximately two weeks early, and that means the bears do not have as much time to feed on their main diet — ring seals. This spring-time feeding is the most important thing in a polar bear's life, says Stirling. While the western side of the bay is warming, the eastern side is displaying a cooling

trend. In western Hudson Bay, "the data are pretty clear that you have long-term climate warming. Whether or not it's part of the long-term natural fluctuation, or whether it is influenced by human activities, is a separate question," says Stirling.

In Hudson Bay, the last ice to melt does so on the coast of Manitoba and Ontario; the bears in the bay are then left on shore for three to four months of the year. "It means the whole population is accessible to you in a fairly small area and they are fairly easily defined — you're just looking for large white blobs on a snow-free earth background," Stirling explains. This is one reason Churchill is such a popular tourist destination, he says, and sometime the bears go right into town. In order to keep humans and polar bears apart, Churchill has built a holding facil-

ity for the polar bears as they gather in late October to wait for the bay to freeze.

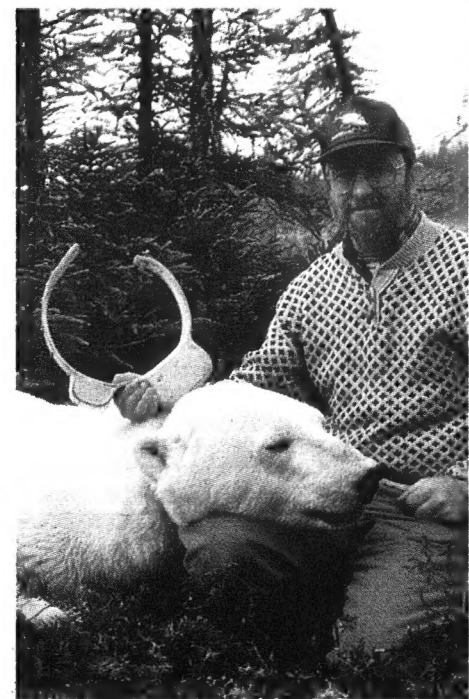
"We found that they can turn on their ability to go into hibernation-like physiology any time they need to," says Stirling. A grizzly bear will starve to death in a week to 10 days if it has no food during the summer, but polar bears operate more efficiently. When they are ashore in July and early August they do not feed for months — they just switch their metabolism over. Stirling's colleagues at the University of Illinois are looking into applications in human medicine of this ability to change metabolism.

With pictures of polar bears on his office wall, a polar bear calendar, polar bear stickers on his filing cabinet and polar bear wallpaper on his computer, it's

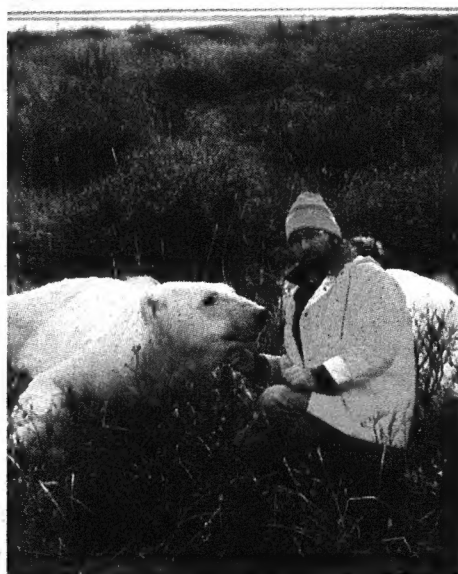
obvious Stirling has a love for the big white animals.

"I was originally interested in polar bears 25 years ago as predators of seals, and it was not long before I got interested in them in their own right," he says. "The thing that interested me most about polar bears is how they have evolved to live in a very harsh and variable and often unpredictable environment so successfully and apparently so comfortably. You never see a polar bear looking like someone waiting for a bus when it's 25 below." ■

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Ian Stirling deploying a satellite radio collar.



Polar bears are the largest land carnivore on earth.

There are 13 polar bear populations in Canada totalling approximately 15,000 bears.

Males weigh 500–600 kg and reach maximum size by 8–10 years.

Cubs are born in late November to early January and weigh 0.6 kg at birth.

Twins are most common (60–70%) although a litter can have 1–4 cubs.

In the wild, males live 20+ years and females live 25+ years.

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